

SEQUENCE LISTING

<110> Wang, Tongtong
 Fan, Liqun
 Kalos, Michael D.
 Bangur, Chaitanya S.
 Hosken, Nancy
 Fanger, Gary R.
 Li, Samuel X.
 Wang, Aijun
 Skeiky, Yasir A.W.
 Henderson, Robert A.
 McNeill, Patricia D.

<120> COMPOSITIONS AND METHODS FOR THE THERAPY
 AND DIAGNOSIS OF LUNG CANCER

<130> 210121.455C13

<140> US

<141> 2000-10-09

<160> 381

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 315

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(315)

<223> n = A,T,C or G

<400> 1

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| gcagagacag actggtggtt gaacctggag gtgccaaaaa agccagctgc gggcccagga | 60 |
| cagctgccgt gagactcccg atgtcacagg cagtctgtgt gggtacagcg cccctcagt | 120 |
| ttcatctcca gcagagacaa cggaggaggc tcccaccagg acggttctca ttatttat | 180 |
| gttaatatgt ttgtaaactc atgtacagtt ttttttgggg gggaagcaat gggaangta | 240 |
| naaattacaa atagaatcat ttgctgtaat ccttaaattg caaacggtca ggccacgtga | 300 |
| aaaaaaaaaaaa | 315 |

<210> 2

<211> 380

<212> DNA

<213> Homo sapien

<400> 2

| | |
|---|----|
| atttaggctt aagattttgt ttacccttgt tactaaggag caaattagta ttaaagtata | 60 |
|---|----|

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atatatataa acaaatacaa aaagttttga gtggttcagc ttttttattt tttttaatgg 120
cataactttt aacaacactg ctctgtaatg ggttgaactg tgggtactcag actgagataa 180
ctgaaatgag tggatgtata gtgttattgc ataattatcc cactatgaag caaagggact 240
ggataaattc ccagtctaga ttattagcct ttgttaacca tcaagcacct agaagaagaa 300
ttattggaaa ttttgtcctc tgtaactggc actttggggg gtgacttatc ttttgccttt 360
gtaaaaaaaa aaaaaaaaaa 380

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<210> 3
<211> 346
<212> DNA
<213> Homo sapien

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<220>
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<222> (1)...(346)
<223> n = A,T,C or G

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<400> 3
ttgtaagtat acaattttag aaaggattaa atgttattga tcattttact gaatactgca 60
catcctcacc atacaccatc cactttccaa taacatttaa tcctttctaa aattgtaagt 120
atacaattgt actttctttg gattttcata acaaatacac catagactgt taattttatt 180
gaagtttcct taatggaatg agtcattttt gtcttggtgct tttgaggta cctttgcttt 240
gacttccaac aatttgatca tatagtgttg agctgtggaa atctttaagt ttattctata 300
gcaataattt ctattnnnag annccngggn naaaannann annaaa 346

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<210> 4
<211> 372
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(372)
<223> n = A,T,C or G

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<400> 4
actagtctca ttactccaga attatgctct tgtacctgtg tggetgggtt tcttagtcgt 60
tggtttggtt tggttttttg aactggtatg taggggtggtt cacagttcta atgtaagcac 120
tctcttctcc aagttgtgct ttgtggggac aatcattctt tgaacattag agaggaaggc 180
agttcaagct gttgaaaaga ctattgctta tttttgtttt taaagaccta cttgacgtca 240
tgtggacagt gcacgtgcct tacgctacat cttgttttct aggaagaagg ggatgcnggg 300
aaggantggg tgctttgtga tggataaaac gnctaaataa cacaccttta cattttgaaa 360
aaaacaaaac aa 372

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<210> 5
<211> 698
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(698)
<223> n = A,T,C or G

```

120 180 240 300 360 380 60 120 180 240 300 346 60 120 180 240 300 360 372

<400> 5

| | | | | | |
|-----------------------|-------------|------------|------------|------------|-----|
| actagtanga tagaaacact | gtgtcccag | agtaaggaga | gaagctacta | ttgattagag | 60 |
| cctaaccag | gttaactgca | agaagaggcg | ggatactttc | agctttccat | 120 |
| gcataaagcc | aatgtagtcc | agtttctaag | atcatgttcc | aagctaactg | 180 |
| caatacacac | tcatagaactc | ctgatggaac | aataacaggc | ccaagcctgt | 240 |
| gcacacttgc | tagactcaga | aaaaatacta | ctctcataaa | tgggtgggag | 300 |
| gacaacctac | tttgcttggc | tgagtgaagg | aatgatattc | atatnttcat | 360 |
| gacatttagt | tagtgctttt | tatataccag | gcagtatgct | gagtgacact | 420 |
| tnccaaatn | ttngtncngt | cgctgcacat | atctgaaatc | ctatattaag | 480 |
| natgangtcc | ctgggttttc | cacgccactt | gacngtcaa | ngatctcacc | 540 |
| ctaaaacnt | ctnctnnang | gtagaang | acctctcttc | tcccttcccg | 600 |
| tgtgngaaga | nancncncn | ccccctncn | tncnncctng | ccngctnnnc | 660 |
| ggngccgcc | cccgcggggg | gacccccccn | ttttcccc | | 720 |
| | | | | | 780 |

<210> 6

<211> 740

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(740)

<223> n = A,T,C or G

<400> 6

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-----|
| actagtcaaa | aatgctaaaa | taatttgga | gaaaatattt | tttaagtagt | gttatagttt | 60 |
| catgtttatc | ttttattatg | tnntgtgaag | ttgtgtcttt | tcactaatta | cctatactat | 120 |
| gccaatattt | ccttataatc | atccataaca | tttatactac | atttgaaga | gaatatgcac | 180 |
| gtgaaactta | acactttata | aggtaaaaat | gagggtttcca | agatttaata | atctgatcaa | 240 |
| gtttcttgta | tttccaaata | gaatggactt | ggtctgttaa | ggggctaagg | gagaagaaga | 300 |
| agataagggt | aaaagtgtgt | aatgaccaa | cattctaaaa | gaaatgcaa | aaaaaattta | 360 |
| ttttcaagcc | ttcgaactat | ttaaggaaa | caaaatcatt | tcctanatgc | atatcatttg | 420 |
| tgagantttc | tcantaatat | cctgaatcat | tcatttcagc | tnaggcttca | tggtgactcg | 480 |
| atatgtcatc | tagggaaagt | ctatttcatg | gtccaaacct | gttgccatag | ttggttnaggc | 540 |
| tttcctttaa | ntgtgaanta | tnnacangaa | attttctctt | tnanagttct | tnatagggtt | 600 |
| aggggtgtgg | gaaaagcttc | taacaatctg | tagtgttncg | tgttatctgt | ncagaaccan | 660 |
| aatnacggat | cgnangaagg | actgggtcta | tttacangaa | cgaatnatct | ngttnnntgt | 720 |
| gtnnncaact | ccngggagcc | | | | | 780 |

<210> 7

<211> 670

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 7

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| gctggggagc | tcggcatggc | ggtccccgct | gcagccatgg | ggccctcggc | gttggggccag | 60 |
| agcggccccg | gctcgatggc | cccgtgggtgc | tcagtgaagc | gcggccccgc | gcgctacgtg | 120 |
| cttgggatgc | aggagctgtt | ccggggccac | agcaagaccg | cgagttcctg | gcgcacagcg | 180 |
| ccaagggtga | ctcgggtggc | tggagttgcg | acgggcgtcg | cctacctcgg | ggtcttcgac | 240 |

```

aagacgccac gtcttcttgc tgganaanga ccgttggtca aagaaaacaa ttatcgggga 300
catggggata gtgtggacca ctttggtggc atccaagtaa tcctgaccta tttgttacgg 360
cgtctggaga taaaaccatt cgcactctgg atgtgaggac tacaaaatgc attgccactg 420
tgaacactaa aggggagAAC attaatatct gctggantcc tgatgggcan accattgctg 480
tagcnacaag gatgatgtgg tgactttatt gatgccaaga aaccccgttc caaagcaaaa 540
aaacanttcc aanttcgaag tcaccnaaat ctcttggaac aatgaacatn aatatnttct 600
tcctgacaat ggncccttgg tgtntcacat cctcagctnc cccaaaactg aancctgtnc 660
natccacccc
670

```

```

<210> 8
<211> 689
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(689)
<223> n = A,T,C or G

```

```

<400> 8
actagtatct aggaatgaac agtaaaagag gagcagttgg ctacttgatt acaacagagt 60
aatgaagta ctggatttgg gaaaacctgg ttttattaga acatatggaa tgaaagccta 120
cacctagcat tgcctactta gccccctgaa ttaacagagc ccaattgaga caaacccctg 180
gcaacaggaa attcaaggga gaaaaagtaa gcaacttggg ctaggatgag ctgactccct 240
tagagcaaag ganagacagc cccattacc aaataccatt tttgcctggg gcttgtgcag 300
ctggcagtgt tcctgcccc gcatggcacc ttatngtttt gatagcaact tcggtgaatt 360
ttcaccaact tattacttga aattataata tagcctgtcc gtttgctgtn tccaggctgt 420
gatatatntt cctagtgtgt tgacttttaa aataaatnag gtttantttt ctccccccnn 480
cnntnctncc nntnctenn cnntcccccc cntcngtcc tccnnnttn gggggggccn 540
ccccnccgn ggacccccct ttggctccct agtgagggt natggccct ggnnttatcc 600
nggcctann tttccccgt nnaaatgnt cccctccca ntccnccac ctcaanccgg 660
aagcctaagt ttntaccctg ggggtcccc 689

```

```

<210> 9
<211> 674
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(674)
<223> n = A,T,C or G

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```

<400> 9
gtccactctc ctttgagtgt actgtcttac tgtgcactct gtttttcaac tttctagata 60
taaaaaatgc ttgttctata gtggagtaag agctcacaca cccaaggcag caagataact 120
gaaaaaagcg aggctttttt gccaccttgg taaaggccag ttactgcta tagaactgct 180
ataagcctga agggaagtag ctatgagact ttccattttt cttagtctc ccaataggct 240
ccttcatgga aaaaggcttc ctgtaataat tttcacctaa tgaattagca gtgtgattat 300
ttctgaaata agagacaaat tgggccgcag agtcttctct tgatttaaaa taaacaaccc 360
aaagttttgt ttggtcttca ccaaaggaca tactctaggg ggtatgttgt tgaagacatt 420
caaaaacatt agctgttctg tctttcaatt tcaagttatt ttggagactg cctccatgtg 480
agttaattac tttgctctgg aactagcatt attgtcatta tcatcacatt ctgtcatcat 540
catctgaata atattgtgga tttccccctc tgcttgcac ttcttttgac tcctctggga 600

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CCCTTCTTGC

anaaatgtca aaaaaaaagg tcgatctact cngcaaggnc catctaataca ctgcgctgga 660
aggaccnct gccc 674

<210> 10
<211> 346
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(346)
<223> n = A,T,C or G

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ttctgtctgt aacaaaaatg tactttatag agatggagga aaaggtctaa tactacatag 120
ccttaagtgt ttctgtcatt gttcaagtgt attttctgta acagaaacat atttggaatg 180
tttttctttt ccccttataa attgtaattc ctgaaatact gctgctttaa aaagtccac 240
tgtcagatta tattatctaa caattgaata ttgtaaatat acttgtctta cctctcaata 300
aaagggtact tttctattan nnagnngnnn gnnnnataaa anaaaa 346

<210> 11
<211> 602
<212> DNA
<213> Homo sapien

<400> 11
actagtaaaa agcagcattg ccaaataatc cctaattttc cactaaaaat ataatgaaat 60
gatgttaagc tttttgaaaa gtttaggtta aacctactgt tgtagatta atgtatttgt 120
tgcttccctt tatctggaat gtggcattag cttttttatt ttaaccctct ttaattctta 180
ttcaattcca tgacttaagg ttggagagct aaacactggg atttttggat aacagactga 240
cagttttgca taattataat cggcattgta catagaaagg atatggctac cttttgttaa 300
atctgcactt tctaaatatc aaaaaaggga aatgaagtta taaatcaatt tttgtataat 360
ctgtttgaaa catgagtttt atttgcttaa tattagggtc ttgccccttt tctgtaagtc 420
tcttgggata ctgtgtagaa ctgttctcat taaacaccaa acagttaagt ccattctctg 480
gtactagcta caaatccggt ttcataattc acttaacaat ttaaataaac tgaaatattt 540
ctagatggtc tacttctgtt catataaaaa caaaacttga tttccaaaaa aaaaaaaaaa 600
aa 602

<210> 12
<211> 685
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(685)
<223> n = A,T,C or G

<400> 12
actagtcttg tgaaagtaca actgaaggca gaaagtgtta ggattttgca tctaattgttc 60
attatcatgg tattgatgga cctaagaaaa taaaaattag actaagcccc caaataagct 120
gcatgcattt gtaacatgat tagtagattt gaatatatag atgtagtatn ttgggtatct 180
agggttttta tcattatgta aaggaattaa agtaaaggac tttgtagttg tttttattaa 240

CCGCCTT "CCGCCTT"

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| atatgcatat | agtagagtgc | aaaaatatag | caaaaatana | aactaaaggt | agaaaagcat | 300 |
| tttagatatg | ccttaatnta | nnaactgtgc | caggtggccc | tcggaataga | tgccaggcag | 360 |
| agaccagtgc | ctgggtgggt | cctccccttg | tctgcccccc | tgaagaactt | ccctcacgtg | 420 |
| angtagtgcc | ctcgtagggt | tcacgtggan | tantggganc | aggccgnncn | gtnanaagaa | 480 |
| ancanngtga | nagtttcncc | gtngangcng | aactgtccct | gngccnnnac | gctcccanaa | 540 |
| cntntccaat | ngacaatcga | gtttccnnnc | tcnngnaacc | tngccgnnnn | cnnngccnnc | 600 |
| cantntgnta | accccgcgcc | cggatcgctc | tcnnntcggt | ctcnencnaa | ngggntttcn | 660 |
| cnnccgcgct | cncnnccccg | cnncc | | | | 685 |

<210> 13
 <211> 694
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(694)
 <223> n = A,T,C or G

| | | | | | | |
|-------------|------------|-------------|------------|------------|-------------|-----|
| <400> 13 | | | | | | |
| cactagtcac | tcattagcgt | tttcaatagg | gctcttaagt | ccagtagatt | acgggtagtc | 60 |
| agttgacgaa | gatctggttt | acaagaacta | attaaatggt | tcattgcatt | tttgaagaa | 120 |
| cagaataaatt | ttataaaatg | tttgtagttt | ataattgccg | aaaataattt | aaagacactt | 180 |
| tttctctgtg | tgtgcaaatg | tgtgtttgtg | atccattttt | tttttttttt | taggacacct | 240 |
| gtttactagc | tagctttaca | atatgccaaa | aaaggatttc | tccttgaccc | catccgtggt | 300 |
| tcaccctctt | ttccccccat | gctttttgcc | ctagtttata | acaaaggaat | gatgatgatt | 360 |
| taaaaagtag | ttctgtatct | tcagtatctt | ggtcttccag | aaccctctgg | ttgggaaggg | 420 |
| gatcattttt | tactggtcac | ttcccttttg | agtgtactac | tttaacagat | ggaaagaact | 480 |
| cattggccat | ggaaacagcc | gangtggttg | gagccagcag | tgcatggcac | cgcccgccat | 540 |
| ctggcgtgat | tgggtctggc | gccgtcattg | tcagcacagt | gccatgggac | atgggggaana | 600 |
| ctgactgcac | ngccaatggg | tttcatgaag | aatacngcat | ncncngtgat | cacgtnancc | 660 |
| angacgctat | gggggncana | ggggccanttg | cttc | | | 694 |

<210> 14
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 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(679)
 <223> n = A,T,C or G

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 14 | | | | | | |
| cagccgcctg | catctgtatc | cagcgccang | tcccgcaggt | cccagctgcg | cgcgcccccc | 60 |
| agtcccgnac | ccgttcggcc | cangctnagt | tagncctcac | catnccgggc | aaaggangca | 120 |
| ccaagtgcac | caaataacct | cngtncggat | ntaaattcat | cttctggcct | gccgggattg | 180 |
| ctgtccntgc | cattggacta | nggctccgat | ncgactctca | gaccanganc | atcttcganc | 240 |
| naganactaa | tnatnatntt | tccagcttct | acacaggagt | ctatatcttg | atcggatccg | 300 |
| gcnccctcnt | gatgctgggt | ggcttcctga | gctgctgcgg | ggctgtgcaa | gagtcccant | 360 |
| gcatgctggg | actgttcttc | ggcttcntct | tggtgatatn | cgccattgaa | atacctgcgg | 420 |
| ccatctgggg | atattccact | ncgatnatgt | gattaaggaa | ntccacggag | ttttacaagg | 480 |
| acacgtacaa | cnacctgaaa | accnnggatg | anccccaccg | ggaancnctg | aangccatcc | 540 |
| actatgcggt | gaactgcaat | ggtttggtcg | gggnccttga | acaatttaat | cncatacatc | 600 |

tggccccann aaaggacnln ctcganncct tcnccgtgna attcngttct gatnccatca 660
cagaagtctc gaacaatcc 679

<210> 15
<211> 695
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(695)
<223> n = A,T,C or G

<400> 15
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cattacaact acccaatccg aagtgtcaac tgtgtcagga ctaanaaacc ctgggtttga 120
ttaaaaaagg gcctgaaaaa aggggagcca caaatctgtc tgcttcctca cnttantcnt 180
tggcaaatna gcattctgtc tcnttggctg cngcctcanc ncaaaaaanc ngaactcnat 240
cnggccagg aatacatctc ncaatnaacn aaattganca aggcnntggg aaatgccnga 300
tgggattatc ntccgcttgt tgancctcta agtttcnttc ccttcattcn accctgccag 360
ccnagttctg ttagaaaaat gccngaattc naacnccggt tttcntactc ngaatttaga 420
tctncanaaa cttcctggcc acnattcnaa ttnanggnca cgnacanatn ccttccatna 480
ancncacccc acntttgana gccangacaa tgactgcntn aantgaaggc ntgaaggaan 540
aactttgaaa ggaaaaaaa ctttgtttcc ggcccccttc aacncttctg tgttnancac 600
tgctttctng naaccctgga agcccnngna cagtgttaca tgttgttcta nnaaacngac 660
ncttnaatnt cnatcttccc nanaacgatt ncnc 695

<210> 16
<211> 669
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(669)
<223> n = A,T,C or G

<400> 16
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ttcccgggcc ccttacaact cacagtcccc gtccccgcat gtcccagaaa caagaagaag 120
agaaccctgc ggaggagacc ggcgaggaga agcaggacac gcaggagaaa gaaggtattc 180
tgcttgagag agctgaagag gcaaagctaa aggccaaata cccaagccta ggacaaaagc 240
ctggaggctc cgacttctc atgaagagac tccagaaagg gcaaaaagta tttgactcng 300
gagactacaa catggccaaa gccaacatga agaataagca gctgccaagt gcangaccag 360
acaagaacct ggtgactggt gatcacatcc ccaccccaca ggatctgccc agagaaaagtc 420
ctcgtctgtc accagcaagc ttgcgggtgg ccaagttgaa tgatgctgcc ggggctctgc 480
canatctgag acgttccct ccctgcccc cccgggtcct gtgctggctc ctgcccttcc 540
tgcttttgca gccanggggc aggaagtggc ncnggtngtg gctggaaagc aaaacccttt 600
cctgttggtg tcccacccat ggagcccctg gggcgagccc angaacttga ncctttttgt 660
tntcttncc 669

<210> 17
<211> 697
<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(697)

<223> n = A,T,C or G

<400> 17

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| gcaagatatg | gacaactaag | tgagaaggta | atnctctact | gctctagntn | ctccnggcnn | 60 |
| gacgcgctga | ggagannnac | gctggcccan | ctgccggcca | cacacgggga | tcntggtnat | 120 |
| gcctgcccan | gggancccca | ncnctcggan | cccatntcac | acccgnnccn | tncgcccacn | 180 |
| ncctggetcn | cnnggcceng | nccagctenc | gnccccctcc | gccnnnctcn | ttnnentctc | 240 |
| cnncacctcc | ncnacnacct | cctaccencg | gctccctccc | cagccccccc | ccgcaancct | 300 |
| ccacnacncc | ntcnncncga | anencenctc | genctengcc | cnngccccct | gccccccgcc | 360 |
| cncnacnneg | cgntcccccg | cgcnegcngc | ctenccccct | cccacnacag | ncncacccgc | 420 |
| agncaagcnc | tccgcccncr | gacgccccnn | cccgcgcgcg | tcaccttcat | ggncncacng | 480 |
| ccccgctenc | ncenctgcnc | gcccgnennng | cgccccgcgc | cnnccgngtn | ccnccgngng | 540 |
| ccccgcnngn | ancngtgcg | cnnrangncc | gngccgnncn | ncacctcccg | ncnccgcgcc | 600 |
| cgcccgcgtg | gggctccgcg | cncgcggntc | antccccncc | cntnccgcca | ctntccgntc | 660 |
| cnnenctenc | getengcgcn | cgcccnccnc | ccccccc | | | 697 |

<210> 18

<211> 670

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 18

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|-----|
| ctcgtgtgaa | gggtgcagta | cctaagccgg | agcggggtag | aggcggggccg | gcacccccctt | 60 |
| ctgacctcca | gtgccggccg | cctcaagatc | agacatggcc | cagaacttga | acgacttggc | 120 |
| gggacggctg | cccgcggggc | cccggggcat | gggcacggcc | ctgaagctgt | tgctgggggc | 180 |
| cggcgccgtg | gcctacgggtg | tgcgcggaatc | tgtgttcacc | gtggaaggcg | ggcncagagc | 240 |
| catcttcttc | aatcggtatc | gtggagtgc | caggacacta | tcctggggccg | anggccttca | 300 |
| cttcaggatc | cttggttcca | gtaccccanc | atctatgaca | ttcggggccag | acctcgaaaa | 360 |
| aatctcctcc | ctacaggctc | caaagaccta | cagatgggtga | atatctccct | gcgagtgttg | 420 |
| tctcgaccaa | tgctcangaa | cttcctaaca | tgttccancg | cctaagggtc | ggactacnaa | 480 |
| gaacgantgt | tgccgtccat | tgctacgaag | tgctcaagaa | tttnggtggc | caagttcaat | 540 |
| gnectcacnn | ctgatcnccc | agcggggcca | agttanccct | ggttgatccc | cgggganctg | 600 |
| acnnaaaagg | gccaaggact | tcccctcatc | ctggataatg | tggccttcac | aaagctcaac | 660 |
| tttanccacc | | | | | | 670 |

<210> 19

<211> 606

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(606)

<223> n = A,T,C or G

<400> 19

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| actagtgcc | acctcagctc | ccaggccagt | tctctgaatg | tcgaggagtt | ccaggatctc | 60 |
| tggcctcagt | tgtccttggg | tattgatggg | ggacaaattg | gggatggcca | gagccccgag | 120 |
| tgctgccttg | gctcaactgt | ggttgatttg | tctgtgcccc | gaaagtttgg | catcattcgt | 180 |
| ccaggctgtg | ccctggaaag | tactacagcc | atcctccaac | agaagtacgg | actgctcccc | 240 |
| tcacatgcgt | cctacctgtg | aaactctggg | aagcaggaag | gccaagacc | tggtgctgga | 300 |
| tactatgtgt | ctgtccactg | acgactgtca | aggcctcatt | tgcagaggcc | accggagcta | 360 |
| gggcactagc | ctgactttta | aggcagtgtg | tctttctgag | cactgtagac | caagcccttg | 420 |
| gagctgctgg | tttagccttg | cacctgggga | aaggatgtat | ttatttgtat | tttcatatat | 480 |
| cagccaaaag | ctgaatggaa | aagttnagaa | cattcctagg | tggccttatt | ctaataagtt | 540 |
| tcttctgtct | gttttgtttt | tcaattgaaa | agttattaaa | taacagattt | agaatctagt | 600 |
| gagacc | | | | | | 606 |

<210> 20

<211> 449

<212> DNA

<213> Homo sapien

<400> 20

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| actagtaaac | aacagcagca | gaaacatcag | tatcagcagc | gtcgccagca | ggagaatatg | 60 |
| cagcgccaga | gccgaggaga | acccccgctc | cctgaggagg | acctgtccaa | actcttcaaa | 120 |
| ccaccacagc | cgctgccag | gatggactcg | ctgctcattg | caggccagat | aaacacttac | 180 |
| tgccagaaca | tcaaggagtt | cactgccccaa | aacttaggca | agctcttcat | ggcccaggct | 240 |
| cttcaagaat | acaacaacta | agaaaaggaa | gtttccagaa | aagaagttaa | catgaactct | 300 |
| tgaagtcaca | ccagggcaac | tcttggaaga | aatatatttg | catattgaaa | agcacagagg | 360 |
| atttcttttag | tgtcattgcc | gattttggct | ataacagtgt | ctttctagcc | ataataaaat | 420 |
| aaaacaaaat | cttgactgct | tgctcaaaa | | | | 449 |

<210> 21

<211> 409

<212> DNA

<213> Homo sapien

<400> 21

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| tatcaatcaa | ctggtgaata | attaaacaat | gtgtggtgtg | atcatacaaa | gggtaccact | 60 |
| caatgataaa | aggaacaagc | tgcctatatg | tggacaaca | tggatgcatt | tcagaaactt | 120 |
| tatgtttgagt | gaaagaacaa | acacggagaa | catactatgt | ggttctcttt | atgtaacatt | 180 |
| acagaaataa | aaacagaggc | aaccaccttt | gaggcagtat | ggagtgagat | agactggaaa | 240 |
| aaggaaggaa | ggaaactcta | cgctgatgga | aatgtctgtg | tcttcattgg | gtggtagtta | 300 |
| tgtggggata | tacatttgtc | aaaatttatt | gaactatata | ctaaagaact | ctgcatttta | 360 |
| ttgggatgta | aataatacct | caattaaaaa | gacaaaaaaa | aaaaaaaaa | | 409 |

<210> 22

<211> 649

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(649)

<223> n = A,T,C or G

<400> 22

CCGCTTGGT
 TATGATGGG
 GGACAAATTG
 GGGATGGCCA
 GAGCCCCGAG
 CATCATTCGT
 ACTGCTCCCC
 TGGTGTGGA
 ACCGGAGCTA
 CAAGCCCTTG
 TTTAGCCTTG
 CACCTGGGGA
 AAGGATGTAT
 TTATTTGTAT
 TTTCATATAT
 CTAATAAGTT
 AGAATCTAGT
 GAGACC

```
<210> 23
<211> 669
<212> DNA
<213> Homo sapien
```

| <400> | 23 | | | | | | |
|--------|-------------|------------|------------|------------|-------------|--|-----|
| cgccg | tactggetga | aatccctgca | ggaccaggaa | gagaaccagt | tcagactttg | | 60 |
| tcagt | caccagctct | ggaattagat | aaattccttg | aagatgtcag | gaatgggatc | | 120 |
| ctctga | cagccttttg | gctgcctcgg | ccccagcagc | cacagcagga | ggaggtgaca | | 180 |
| gtctg | tgccccccctc | tgtcaagact | ccgacacctg | aaccagctga | ggtggagact | | 240 |
| ggtgg | tgctgatgca | gtgcaacatt | gagtcggtgg | aggagggagt | caaacaccac | | 300 |
| acttc | tgctgaagtt | ggaggacaaa | ctgaaccggc | acctgagctg | tgacctgatg | | 360 |
| tgaga | atatccccga | gttggcggct | gagctggtgc | agctgggctt | cattagttag | | 420 |
| ccaga | gccggttgac | ttctctgcta | gaagagactt | gaacaagttc | aattttgccca | | 480 |
| agtac | cctcaactca | gccgctgtca | ccgtctcttc | ttagagctca | ctcggggccag | | 540 |
| gatct | gcgctgtggc | tgtcctggac | gtgctgcacc | ctctgtcctt | ccccccagtc | | 600 |
| taacct | gtgaagccct | tccctccttt | attattcagg | anggctgggg | gggctccttg | | 660 |
| aacc | | | | | | | 669 |

```
<210> 24
<211> 442
<212> DNA
<213> Homo sapien
```

| | |
|-------|-----|
| <210> | 25 |
| <211> | 656 |
| <212> | DNA |

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(656)

<223> n = A,T,C or G

<400> 25

| | | | | | | |
|------------|-------------|------------|-------------|------------|-------------|-----|
| tgcaagtacc | acacactggt | tgaattttgc | acaaaaagtg | actgtaggat | caggtgatatg | 60 |
| ccccggaatg | tacagtgtct | tggtgcacca | agatgccttc | taaaggctga | cataccttgg | 120 |
| accctaattg | ggcagagagt | atagccctag | cccagtgggtg | acatgaccac | tccctttggg | 180 |
| aggcctgagg | tagaggggag | tggtatgtgt | tttctcagtg | gaagcagcac | atgagtgggt | 240 |
| gacaggatgt | tagataaagg | ctctagttag | ggtgtcattg | tcatttgaga | gactgacaca | 300 |
| ctcctagcag | ctggtaaagg | ggtgctggan | gccatggagg | anctctagaa | acattagcat | 360 |
| gggctgatct | gattacttcc | tggtatcccc | ctcactttta | tggaagtct | tattagangg | 420 |
| atgggacagt | tttccatata | cttgctgtgg | agctctggaa | cactctctaa | atttccctct | 480 |
| attaaaaatc | actgccctaa | ctacacttcc | tccttgaagg | aatagaaatg | gaactttctc | 540 |
| tgacatannt | cttggcatgg | ggagccagcc | acaaatgana | atctgaacgt | gtccagggtt | 600 |
| ctcctganac | tcactctacat | agaatttggt | aaaccctccc | ttggaataag | gaaaaa | 656 |

<210> 26

<211> 434

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(434)

<223> n = A,T,C or G

<400> 26

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| actagttcag | actgccacgc | caaccocaga | aaatacccca | catgccagaa | aagtgaagtc | 60 |
| ctagggtgtt | ccatctatgt | ttcaatctgt | ccatctacca | ggcctcgcga | taaaaacaaa | 120 |
| acaaaaaaac | gctgccagg | tttagaagca | gttctgggtc | caaaaccatc | aggatcctgc | 180 |
| caccagggtt | cttttgaaat | agtaccacat | gtaaaaggga | atttggtttt | cacttcatct | 240 |
| aataactgaa | ttgtcaggct | ttgattgata | attgtagaaa | taagtagcct | tctgtttgtg | 300 |
| gaataagtta | taatcagtat | tcactctctt | gttttttgtc | actcttttct | ctctaattgt | 360 |
| gtcatttgta | ctgtttgaaa | aatattttct | ctatnaaatt | aaactaacct | gccttaaaaa | 420 |
| aaaaaaaaaa | aaaa | | | | | 434 |

<210> 27

<211> 654

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(654)

<223> n = A,T,C or G

<400> 27

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| actagtccaa | cacagtcaga | aacattgttt | tgaatcctct | gtaaaccaag | gcattaatct | 60 |
| taataaacca | ggatccattt | aggtaccact | tgatataaaa | aggatatcca | taatgaatat | 120 |
| tttatactgc | atcctttaca | ttagccacta | aatacgttat | tgcttgatga | agacctttca | 180 |

```
<210> 28
<211> 670
<212> DNA
<213> Homo sapien
```

[illegible]

```
<210> 29
<211> 551
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(551)  
<223> n = A,T,C or G
```

| <400> 29 | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|-----|
| actagtctctc | cacagcctgt | gaatccccct | agacctttca | agcatagtga | gcggagaaga | 60 |
| agatctcagc | gtttagccac | cttaccctatg | cctgatgatt | ctgtagaaaa | ggtttcttct | 120 |
| ccctctccag | ccactgatgg | gaaagtattc | tccatcagtt | ctcaaaatca | gcaagaatct | 180 |
| tcagtaccag | agggtgcctga | tgttgcacat | ttgccacttg | agaagctggg | accctgtctc | 240 |
| cctcttgact | taagtcgtgg | ttcagaagtt | acagcacccg | tagcctcaga | ttcctcttac | 300 |
| cgtaatgaat | gtcccagggc | agaaaaagag | gatacnca | tgcttccaaa | tccttcttcc | 360 |
| aaagcaatag | ctgatgggaa | gaggagctcc | agcagcagca | ggaatatcga | aaacagaaaa | 420 |
| aaaagtga | ttgggaagac | aaaagctcaa | cagcatttgg | taaggagaaa | aganaagatg | 480 |
| aggaaggaag | agagaagaga | gacnaagatc | nctacggacc | gnnncggaag | aagaagaagn | 540 |
| aaaaaaaaaa | a | | | | | 551 |

<210> 30
 <211> 684
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(684)
 <223> n = A,T,C or G

<400> 30
 actagttcta tctggaaaaa gcccggttg gaagaagctg tggagagtgc gtgtgcaatg 60
 cgagactcat ttcttggaag catccctggc aaaaatgcag ctgagtacaa gggtatcact 120
 gtgatagaac ctggactgct ttttgagata atagagatgc tgcagtctga agagacttcc 180
 agcacctctc agttgaatga attaatgatg gcttctgagt caactttact ggctcaggaa 240
 ccacgagaga tgactgcaga tgtaatcgag cttaaaggga aattcctcat caacttagaa 300
 ggtggtgata ttcgtgaaga gtcttcctat aaagtaattg tcatgccgac tacgaaagaa 360
 aaatgcccc gttgttgga gtatacagcg ggagtcttca gatacactgt gtcctcgatg 420
 tgcagaagtt gtcagtggga aaatagtatt aacagctcac tcgagcaaga accctcctga 480
 cagtactggg ctagaagttt ggatggatta tttacaatat aggaaagaaa gccagaatt 540
 aggtnatgag tggatgagta aatggtggan gatggggaat tcaaatacaga attatggaag 600
 aagttnttcc tggtactata gaaaggaatt atgtttattt acatgcagaa aatatanatg 660
 tgtggtgtgt accgtggatg gaan 684

<210> 31
 <211> 654
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(654)
 <223> n = A,T,C or G

<400> 31
 gcgcagaaaa ggaaccaata tttcagaaac aagcttaata ggaacagctg cctgtacatc 60
 aacatcttct cagaatgacc cagaagttat catcgtggga gctggcgtgc ttggctctgc 120
 tttggcagct gtgctttcca gagatggaag aaaggtgaca gtcattgaga gagacttaaa 180
 agagcctgac agaatagttg gagaattcct gcagccgggt gggtatcatg ttctcaaaga 240
 ccttggtctt ggagatacag tggaaaggtct tgatgccag gttgtaaag gttacatgat 300
 tcatgatcag ggaaagcaaa tcagangttc agattcctta ccctctgtca gaaaacaatc 360
 aagtgcagag tggaagagct ttccatcacg gaagattcat catgagtctc cggaaagcag 420
 ctatggcaga gcccaatgca aagtttattg aaggtgttgt gttacagtta ttagaggaag 480
 atgatgttgt gatgggagtt cagtacaagg ataaagagac tgggagatat caaggaactc 540
 catgctccac tgactgttgt tgcagatggg cttttctcca anttcaggaa aagcctggtc 600
 tcaataaagt ttctgtatca ctcatgttgt tggtctctta tgaagaatgc nccc 654

<210> 32
 <211> 673
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(673)
 <223> n = A,T,C or G

<400> 32
 actagtgaag aaaaagaaat tctgatacgg gacaaaaatg ctcttcaaaa catcattctt 60
 tatcacctga caccaggagt ttctattgga aaaggatttg aacctggtgt tactaacatt 120
 ttaaagacca cacaaggaag caaaatcttt ctgaaagaag taaatgatac acttctggtg 180
 aatgaattga aatcaaaaga atctgacatc atgacaacaa atggtgtaat tcatgttgta 240
 gataaactcc tctatccagc agacacacct gttggaaatg atcaactgct ggaaatactt 300
 aataaattaa tcaaatacat ccaaattaag tttgttcgtg gtagcacctt caaagaaatc 360
 cccgtgactg tctatnagcc aattattaaa aaatacacca aaatcattga tgggagtgcc 420
 tgtgggaaat aactgaaaaa gagaccgaga agaacgaatc attacaggtc ctgaaataaa 480
 atacctagga tttctactgg aggtggagaa acagaagaac tctgaagaaa ttgttacaag 540
 aagangtccc aaggtcacca aattcattga aggtggtgat ggtctttatt tgaagatgaa 600
 gaaattaaaa gacgcttcag ggagacnccc catgaaggaa ttgccagcca caaaaaaatt 660
 cagggattag aaa 673

<210> 33
 <211> 673
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(673)
 <223> n = A,T,C or G

<400> 33
 actagttatt tactttcctc cgcttcagaa ggtttttcag actgagagcc taagcatact 60
 ggatctgttg tttcttttgg gtctcacctc atcagtgtgc atagtggcag aaattataaa 120
 gaaggttgaa aggagcaggg aaaagatcca gaagcatgtt agttcgacat catcatcttt 180
 tcttgaagta tgatgcatat tgcattatth tatttgcaaa ctaggaattg cagtctgagg 240
 atcatttaga agggcaagtt caagaggata tgaagatttg agaacttttt aactattcat 300
 tgactaaaaa tgaacattaa tgttnaagac ttaagacttt aacctgctgg cagtccaaa 360
 tgaaattatg caactttgat atcatattcc ttgatttaaa ttgggctttt gtgattgant 420
 gaaactttat aaagcatatg gtcagttatt tnattaaaaa ggcaaacctt gaaccacctt 480
 ctgcacttaa agaagtctaa cagtacaaat acctatctat cttagatgga tntatttntt 540
 tntattttta aatattgtac tatttatggg nggtggggct ttcttactaa tacacaaatn 600
 aatttatcat ttcaanggca ttctatttgg gtttagaagt tgattccaag nantgcatat 660
 ttcgctactg tnt 673

<210> 34
 <211> 684
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(684)
 <223> n = A,T,C or G

<400> 34
 actagtttat tcaagaaaag aacttactga ttctctgtgt cctaaagcaa gagtggcagg 60

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgatcagggc | tggtgtagca | tccggttcct | ttagtgcagc | taactgcatt | tgctactgat | 120 |
| gaccaaggag | gaaatcacta | agacatttga | gaagcagtgg | tatgaacggt | cttgacaag | 180 |
| ccacagttct | gagccttaac | cctgtagttt | gcacacaaga | acgagctcca | cctccccctc | 240 |
| ttcaggagga | atctgtgcgg | atagattggc | tggacttttc | aatggttctg | ggttgcaagt | 300 |
| gggcactggt | atggctgggt | atggagcgga | cagccccagg | aatcagagcc | tcagcccggc | 360 |
| tgcctggttg | gaaggtacag | gtgttcagca | ccttcggaaa | aagggcataa | agtngtgggg | 420 |
| gacaattctc | agtccaagaa | gaatgcattg | accattgctg | gctatttgct | tncctagtan | 480 |
| gaattggatn | catttttgac | cangatnntt | ctnctatgct | ttnttgcaat | gaaatcaaat | 540 |
| ccgcattat | ctacaagtgg | tatgaagtcc | tgcnnccccc | agagaggctg | ttcaggcnat | 600 |
| gtcttccaag | ggcagggtgg | gttacaccat | tttacctccc | ctctcccccc | agattatgna | 660 |
| cncagaagga | atttntttcc | tccc | | | | 684 |

<210> 35

<211> 614

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(614)

<223> n = A,T,C or G

<400> 35

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| actagtccaa | cgcgttngcn | aatattcccc | tggtagccta | cttccttacc | cccgaatatt | 60 |
| ggtaagatcg | agcaatggct | tcaggacatg | ggttctcttc | tcctgtgatc | attcaagtgc | 120 |
| tactgcatg | aagactggct | tgtctcagtg | tntcaacctc | accagggtcg | tctcttggtc | 180 |
| cacacctcgc | tcctgttag | tgccgtatga | cagcccccat | canatgacct | tgcccaagtc | 240 |
| acggtttctc | tgtgggtcaat | gttggtnggc | tgattgggtg | aaagtanggt | ggaccaaagg | 300 |
| aagncncgtg | agcagncanc | nccagttctg | caccagcagc | gcctccgtcc | tactnggggtg | 360 |
| ttcngtttc | tcctggccct | gngtgggcta | nggcctgatt | cgggaanatg | cctttgcang | 420 |
| gaagganga | taantgggat | ctaccaattg | attctggcaa | aacnatntct | aagattnttn | 480 |
| tgctttatgt | ggganacana | tctanctctc | atttnttgct | gnanatnaca | ccctactcgt | 540 |
| gntcgancnc | gtcttcgatt | ttcgganaca | cnccantnaa | tactggcggt | ctgttgtaa | 600 |
| aaaaaaaaaa | aaaa | | | | | 614 |

<210> 36

<211> 686

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(686)

<223> n = A,T,C or G

<400> 36

| | | | | | | |
|------------|------------|-------------|-------------|-------------|------------|-----|
| gtggctggcc | cggttctccg | cttctcccca | tcccctaact | tcctccctcc | ctccctttcc | 60 |
| ctccctcgtc | gactgttgct | tgtctggcgc | agactccctg | acccctccct | cacccctccc | 120 |
| taacctcggg | gccaccggat | tgccttctt | ttcctgttgc | ccagcccagc | cctagtgtca | 180 |
| gggcgggggc | ctggagcagc | ccgaggcact | gcagcagaag | ananaaaaga | cacgacnaac | 240 |
| ctcagctcgc | cagtccggtc | gctngcttcc | cgccgcatgg | caatnagaca | gacgccgctc | 300 |
| acctgctctg | ggcacacgcg | acccgtgggt | gatttggcct | tcagtggcat | cacccttatg | 360 |
| ggtatttctt | aatcagcgct | tgcaaaagatg | gttaacctat | gctacgccag | ggagatacag | 420 |
| gagactggat | tggaacattt | ttgggggtcta | aagggtctgtt | tgggggtgcaa | cactgaataa | 480 |

```

ggatgccacc aaagcagcta cagcagctgc agatttcaca gccaagtgt gggatgctgt      540
ctcagganatt naattgataa cctggctcat aacacattgt caagaatgtg gatttcccca      600
ggatattatt atttgtttac cggggganag gataactgtt tcnctatatt taattgaaca      660
aactnaaaca aanctaagg aaatcc                                           686

```

```

<210> 37
<211> 681
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(681)
<223> n = A,T,C or G

```

```

<400> 37

```

```

gagacanacn naacgtcang agaanaaaag angcatggaa cacaanccag gcncgatggc      60
caccttccca ccagcancca gcgcccccca gcngccccca ngnccggaag accangactc      120
cancctgnat caatctganc tctattcctg gcccatncct acctcgagg tggangccgn      180
aaaggtcgca cnnncagaga agctgctgcc ancaccancc gcccnnccc tgcgaggctn      240
nataggaaac tggtgaccnn gctgcanaat tcatacagga gcacgcgag ggcacnnnct      300
cacactgagt tnnngatgan gcctnaccan ggacctnccc cagcnnattg annacnggac      360
tgcggaggaa ggaagacccc gnacnggatc ctggcggcgn tgccaccccc ccacccttag      420
gattatnccc cttgactgag tctctgagg gctaccgaa cccgctcca ttccctacca      480
natnntgctc natcgggact gacangctgg ggatnggagg ggctatcccc cancatcccc      540
tnanaccaac agcnaangan natnggggct ccccnngggtc ggngcaacnc tctncaccc      600
cggcgcnngc ctctgggtgt gtcctcctc aacnaattcc naaanggcgg gcccccngt      660
ggactccten ttgttccctc c                                           681

```

```

<210> 38
<211> 687
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(687)
<223> n = A,T,C or G

```

```

<400> 38

```

```

canaaaaaaa aaaacatggc cgaaccagn aagctgcgag atggcgccac ggccccctctt      60
ctccccgctt gtgtccggaa ggtttccctc cgaggcgccc cggtccccgc aagcggagga      120
gagggcgagg cntgcccggg ccggagctca naggccctgg ggccgctctg ctctcccgcc      180
atcgcaaggg cggcgctaac ctnaggcctc cccgcaaagg tccccnangc ggnggcggcg      240
gggggctgtg anaaccgcaa aaanaacgct gggcgcgcn ggaacccgtc ccccccgcg      300
aaggananac ttccacagan gcagcgtttc cacagcccan agccaenttt ctaggggtgat      360
gcaccccagt aagttcctgn cggggaagct caccgctgtc aaaaaanctc ttcgctccac      420
cggcgcacna agggangan ggcangangc tgccgcccgc acaggtcatc tgatcacgtc      480
gcccgcctta ntctgctttt gtgaatctcc actttgttca accccacccg ccgttctctc      540
ctccttgccg cttcctctna ccttaanaac cagcttctc taccnatng tanttntct      600
gcncnngtng aaattaattc ggtccnccgg aacctcttnc ctgtgggaac tgctnaaaga      660
aactgctgtt ctgnttactg cngtccc                                           687

```

```

<210> 39

```

<211> 695
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(695)
 <223> n = A,T,C or G

<400> 39

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|-----|
| actagtctgg | cctacaatag | tgtgattcat | gtaggacttc | tttcatcaat | tcaaaacccc | 60 |
| tagaaaaacg | tatacagatt | atataagtag | ggataagatt | tctaacattt | ctgggctctc | 120 |
| tgaccctctg | gctagactgt | ggaaagggag | tattattata | gtatacaaca | ctgctgttgc | 180 |
| cttattagtt | ataacatgat | aggtgctgaa | ttgtgattca | caatttaaaa | acactgtaat | 240 |
| ccaaactttt | ttttttaact | gtagatcatg | catgtgaatg | ttaatgttaa | tttgttcaan | 300 |
| gttgttatgg | gtagaaaaaa | ccacatgcct | taaaatttta | aaaagcaggg | cccaaactta | 360 |
| ttagtttaaa | attaggggta | tgtttccagt | ttgttattaa | ntggttatag | ctctgtttag | 420 |
| aanaaatcna | ngaacangat | ttngaaantt | aagntgacat | tatttnccag | tgacttgtta | 480 |
| atttgaaatc | anacacggca | ccttcogttt | tggtinctatt | ggnnnttgaa | tccaancngg | 540 |
| ntccaaatct | tnttggaaac | ngtccnttta | acttttttac | nanatcttat | ttttttattt | 600 |
| tggaatggcc | ctattttaang | ttaaaagggg | ggggnnccac | naccattcnt | gaataaaact | 660 |
| naatatatat | ccttggtccc | ccaaaattta | aggng | | | 695 |

<210> 40
 <211> 674
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(674)
 <223> n = A,T,C or G

<400> 40

| | | | | | | |
|-------------|------------|------------|-------------|-------------|-------------|-----|
| actagtagtc | agttgggagt | ggttgctata | ccttgacttc | atttatatga | atttccactt | 60 |
| tattaaataa | tagaaaagaa | aatcccggtg | cttgacagtag | agttatagga | cattctatgc | 120 |
| ttacagaaaa | tatagccatg | attgaaatca | aatagtaaag | gctgttctgg | ctttttatct | 180 |
| tcttagctca | tcttaaataa | gtagtacact | tgggatgcag | tgcgctctgaa | gtgctaataca | 240 |
| gttgtaacaa | tagcacaaat | cgaacttagg | atgtgtttct | tctcttctgt | gtttcgattt | 300 |
| tgatcaattc | tttaattttg | ggaacctata | atacagtttt | cctattcttg | gagataaaaa | 360 |
| ttaaattggat | cactgatatt | taagtcattc | tgcttctcat | ctnaatattc | catattctgt | 420 |
| attagganaa | antacctccc | agcacagccc | cctctcaaac | cccacccaaa | accaagcatt | 480 |
| tggaatgagt | ctcctttatt | tccgaantgt | ggatggtata | acccatatcn | ctccaatttc | 540 |
| tgnttggggt | gggtattaat | ttgaactgtg | catgaaaagn | ggnaatcttt | nctttggggtc | 600 |
| aaantttnc | ggttaatttg | nctngncaaa | tccaatttnc | tttaagggtg | tctttataaa | 660 |
| atttgctatt | cngg | | | | | 674 |

<210> 41
 <211> 657
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<221> misc feature

<222> (1)...(449)

<223> n = A,T,C or G

<400> 44

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| actagtagca | tcttttctac | aacgttaaaa | ttgcagaagt | agcttatcat | taaaaaacia | 60 |
| caacaacaac | aataacaata | aatcctaagt | gtaaatcagt | tattctaccc | cctaccaagg | 120 |
| atatcagcct | gttttttccc | ttttttctcc | tggaataaat | tgtgggcttc | ttcccaaatt | 180 |
| tctacagcct | ctttcctctt | ctcatgcttg | agcttccttg | tttgacagca | tgcgttgtgc | 240 |
| aagantgggc | tgtttngctt | ggantncggg | ccnagtggaa | ncatgctttc | ccttggtact | 300 |
| gttgaagaa | actcaaacct | tcnanccta | gggtgttcca | ttttgtcaag | tcactactgt | 360 |
| atttttgtac | tggcattaac | aaaaaaagaa | atnaaatatt | gttccattaa | actttaataa | 420 |
| aactttaaaa | gggaaaaaaa | aaaaaaaaa | | | | 449 |

<210> 45

<211> 559

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(559)

<223> n = A,T,C or G

<400> 45

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| actagtgtgg | gggaatcacg | gacacttaaa | gtcaatctgc | gaaataattc | ttttattaca | 60 |
| cactcactga | agtttttgag | tcccagagag | ccattctatg | tcaaacattc | caagtactct | 120 |
| ttgagagccc | agcattacat | caacatgccc | gtgcagttca | aaccgaagtc | cgcaggcaaa | 180 |
| tttgaagctt | tgcttgtcat | tcaaacagat | gaaggcaaga | gtattgctat | tcgactaatt | 240 |
| ggtgaagctc | ttggaaaaaa | ttnactagaa | tactttttgt | gttaagttaa | ttacataagt | 300 |
| tgtattttgt | taacttttatc | tttctacact | acaattatgc | ttttgtatat | atattttgta | 360 |
| tgatggatat | ctataattgt | agattttggt | tttacaagct | aatactgaag | actcgactga | 420 |
| aatattatgt | atctagccca | tagtattgta | cttaactttt | acaggggtgaa | aaaaaaattc | 480 |
| tgtgtttgca | ttgattatga | tattctgaat | aaatatggga | atatatttta | atgtgggtaa | 540 |
| aaaaaaaaaa | aaaaaggaa | | | | | 559 |

<210> 46

<211> 731

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(731)

<223> n = A,T,C or G

<400> 46

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| actagttcta | gtaccatggc | tgtcatagat | gcaaccatta | tattccattt | agtttcttcc | 60 |
| tcagggtccc | taacaattgt | ttgaaactga | atatatatgt | ttatgtatgt | gtgtgtgttc | 120 |
| actgtcatgt | atatggtgta | tatgggatgt | gtgcagtttt | cagttatata | tatattcata | 180 |
| tatacatatg | catatatatg | tataatatac | atatatacat | gcatacactt | gtataatata | 240 |
| catatatata | cacatatatg | cacacatatn | atcactgagt | tccaaagtga | gtctttattt | 300 |
| ggggcaattg | tattctctcc | ctctgtctgc | tcactgggcc | tttgcaagac | atagcaattg | 360 |
| cttgatttcc | tttgataag | agtccttatct | tcggcactct | tgactctagc | cttaacttta | 420 |
| gatttctatt | ccagaatacc | tctcatatct | atcttaaaac | ctaaganggg | taaagangtc | 480 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ataagattgt | agtatgaaag | antttgctta | gttaaattat | atctcaggaa | actcattcat | 540 |
| ctacaaatta | aattgtaaaa | tgatggtttg | ttgtatctga | aaaaatggtt | agaacaagaa | 600 |
| atgtaactgg | gtacctgtta | tatcaaagaa | cctcnattta | ttaagtctcc | tcatagccan | 660 |
| atccttatat | ngccctctct | gacctgantt | aatananact | tgaataatga | atagttaatt | 720 |
| taggnntggg | c | | | | | 731 |

<210> 47
 <211> 640
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(640)
 <223> n = A,T,C or G

<400> 47

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| tgcgngccgg | tttggccctt | ctttgtanga | cactttcatc | cgccctgaaa | tcttcccgat | 60 |
| cgtaataaac | tcctcaggtc | cctgcctgca | caggggtttt | tcttantttg | ttgcctaaca | 120 |
| gtacaccaa | tgtgacatcc | tttcaccaat | atngattnct | tcataccaca | tcntcnatgg | 180 |
| anacgactnc | aacaattttt | tgatnaccn | aaanactggg | ggctnnaana | agtacantct | 240 |
| ggagcagcat | ggacctgtcn | gcnactaang | gaacaanagt | nntgaacatt | tacacaacct | 300 |
| ttggtatgtc | ttactgaaag | anagaaacat | gcttctnncc | ctagaccacg | aggncaaccg | 360 |
| caganattgc | caatgccaaag | tccgagcggt | tagatcaggt | aatacattcc | atggatgcat | 420 |
| tacatacntt | gtccccgaaa | nanaagatgc | cctaanggct | tcttcanact | ggtcengaaa | 480 |
| acanctacac | ctggtgcttg | ganaacanac | tctttggaag | atcatctggc | acaagttccc | 540 |
| cccagtggtt | tttnccttgg | cacctanctt | accanatcna | ttcggaancc | attctttgcc | 600 |
| ntggcnttnt | nttgggacca | ntctttctcac | aactgnacc | | | 640 |

<210> 48
 <211> 257
 <212> DNA
 <213> Homo sapien

<400> 48

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| actagtatat | gaaaatgtaa | atatcacttg | tgtactcaaa | caaaagttgg | tcttaagctt | 60 |
| ccaccttgag | cagccttgga | aacctaacct | gcctctttta | gcataatcac | attttctaaa | 120 |
| tgattttctt | tgttcttgaa | aaagtgattt | gtattagttt | tacatttggt | ttttggaaga | 180 |
| ttatatttgt | atatgtatca | tcataaaata | tttaaataaa | aagtatcttt | agagtgaaaa | 240 |
| aaaaaaaaaa | aaaaaaaa | | | | | 257 |

<210> 49
 <211> 652
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(652)
 <223> n = A,T,C or G

<400> 49

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| actagttcag | atgagtggct | gctgaagggg | cccccttgct | attttcatta | taacccaatt | 60 |
| tccacttatt | tgaactctta | agtcataaat | gtataatgac | ttatgaatta | gcacaggttaa | 120 |


```

gttgacacta gaaactgccc atttctgtat tacactatca aataggaaac attggaaaga 180
tggggaaaaa aatcttattt taaaatggct tagaaagttt tcagattact ttgaaaattc 240
taaactttct tctgtttcca aaacttgaaa atatgtagat ggactcatgc attaagactg 300
ttttcaaagc tttcctcaca tttttaaaagt gtgattttcc ttttaataata catattttatt 360
ttcttttaaag cagctatata ccaacccatg actttggaga tatacctatn aaaccaatat 420
aacagcangg ttattgaagc agctttctca aatgttgctt cagatgtgca agttgcaaatt 480
tttattgtat ttgtanaata caatttttgt tttaaactgt atttcaatct atttctccaa 540
gatgcttttc atatagagtg aaatatccca ngataactgc ttctgtgtcg tcgcatttga 600
cgcataactg cacaaatgaa cagtgtatac ctcttggttg tgcattnacc cc 652

```

<210> 50

<211> 650

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(650)

<223> n = A,T,C or G

<400> 50

```

ttgcgctttg atttttttag ggcttgtgcc ctgtttcact tatagggtct agaatgcttg 60
tgttgagtaa aaaggagatg cccaatatcc aaagctgcta aatgttctct ttgccataaa 120
gactccgtgt aactgtgtga acacttgga tttttctcct ctgtcccag gtcgtcgtct 180
gctttctttt ttgggttctt tctagaagat tgagaaatgc atatgacagg ctgagancac 240
ctccccaaac acacaagctc tcagccacan gcagcttctc cacagcccca gcttcgcaca 300
ggctcctgga nggctgcctg ggggaggcag acatgggagt gccaaagggtg ccagatgggt 360
ccaggactac aatgtcttta tttttaactg tttgccactg ctgccctcac ccctgcccg 420
ctctggagta ccgtctgccc canacaagtg ggantgaaat gggggtgggg gggaactg 480
attcccantt agggggtgcc taactgaaca gtaggatan aagggtgtgaa cctgngaant 540
gcttttataa attatnttcc ttgttanatt tattttttaa tttaatctct gttnaactgc 600
ccnnggaaaa ggggaaaaaa aaaaaaaaaa tctnttttaa cacatgaaca 650

```

<210> 51

<211> 545

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(545)

<223> n = A,T,C or G

<400> 51

```

tggcgtgcaa ccagggtagc tgaagtttgg gtctgggact ggagattggc cattaggcct 60
cctganattc cagctccctt ccaccaagcc cagtcttgct acgtggcaca gggcaaacct 120
gactcccttt gggcctcagt ttcccctccc cttcatgana tgaaaagaat actacttttt 180
cttgttggtc taacnttgct ggacncaaag tgtngtcatt attgttgat ttgggtgatgt 240
gtncaaaact gcagaagctc actgcctatg agaggaanta agagagatag tggatganag 300
ggacanaagg agtcattatt tggatatagat ccaccntcc caacctttct ctccctcagtc 360
cctgcncctc atgtntctgg tntgggtgagt cctttgtgcc accanccatc atgctttgca 420
ttgctgccat cctgggaagg ggggtgnatcg tctcacaact tgttgtcatc gtttganatg 480
catgctttct tnatnaaaca aanaaanaa tgtttgacag ngttttaaatt aaaaaanaaa 540
caaaa

```

<210> 52
 <211> 678
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(678)
 <223> n = A,T,C or G

<400> 52
 actagtagaa gaactttgccc gcttttgtgc ctctcacagg cgcctaaagt cattgccatg 60
 ggaggaagac gatttggggg gggagggggg gggggcangg tccgtggggc tttccctant 120
 ntatctccat ntccantggn cnntgtcgcc tcttccctcg tencattnga anttantccc 180
 tggneccenn nccctctcnn nccnncncc ccccccctcg ncnccctcnn ctttttntan 240
 ncttcccat ctcncccc cctnanngtc ccaacnccgn cagcaatnnc ncaactnctc 300
 nctcncncc tcnnccggtt ctctnttct cnactntnnc ncnntnccn tgccnntnaa 360
 annctctccc cnetgcaanc gattctctcc ctcccnann ctntccactc cntncttctc 420
 ncnegctect nttctcnncc ccacctctcn ccttcgncce cantacnctc nccncccttn 480
 cgnntcnttn nnntcctcnn accnccncc tcccttncce cctcttctcc ccggtntntc 540
 tctctccncc ncnncnccct cnnccentcc nngcgncent ttcgcgccn cncnccntt 600
 ccttctcnc cantccatcn cntntnccat nctnccncc nctcacncc gctnccccn 660
 ntctctttca cacnctcc 678

<210> 53
 <211> 502
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(502)
 <223> n = A,T,C or G

<400> 53
 tgaagatcct ggtgtcgcca tgggcccgcg ccccgcccgt tgttaccggt attgtaagaa 60
 caagccgtac ccaaagtctc gcttctgccg aggtgtccct gatgccaaaa ttgcattttt 120
 tgacctgggg cggaaaaang caaaantgga tgagtctccg ctttgtggcc acatggtgtc 180
 agatcaatat gagcagctgt cctctgaagc cctgnangct gcccgattt gtgccaataa 240
 gtacatggta aaaagtngtg gcnaagatgc ttccatatcc ggggtgcgnt ccaccccttc 300
 cacgtcatcc gcatacaaaa gatgttgctc tgtgctgggg ctgacaggct cccaacaggc 360
 atgcgaagtg cctttggaaa acccanggca ctgtggccag gggtcacatt gggccaattn 420
 atcatgttca tccgcaccaa ctgcagaaca angaantgt naattnaagc cctgcccagg 480
 gncaanttca aatttcccgg cc 502

<210> 54
 <211> 494
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(494)

<223> n = A,T,C or G

<400> 54

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|------------|-----|
| actagtccaa | gaaaaaatatg | cttaatgtat | attacaaaagg | ctttgtatat | gttaacctgt | 60 |
| tttaatgcc | aaagtttgct | ttgtccacaa | tttccttaag | acctcttcag | aaagggattt | 120 |
| gtttgcctta | atgaatactg | ttgggaaaaa | acacagtata | atgagtgaaa | agggcagaag | 180 |
| caagaaattt | ctacatctta | gcgactccaa | gaagaatgag | tatccacatt | tagatggcac | 240 |
| attatgagga | ctttaatctt | tccttaaaca | caataatggt | ttcttttttc | ttttattcac | 300 |
| atgatttcta | agtatatttt | tcattgcagga | cagtttttca | accttgatgt | acagtgactg | 360 |
| tggttaaattt | ttcttttcagt | ggcaacctct | ataatcttta | aaatatgggtg | agcatcttgt | 420 |
| ctgttttgaa | ngggatatga | cnatnaatct | atcagatggg | aaatcctggt | tccaagttag | 480 |
| aaaaaaaaaa | aaaa | | | | | 494 |

<210> 55

<211> 606

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(606)

<223> n = A,T,C or G

<400> 55

| | | | | | | |
|-------------|------------|-------------|------------|-------------|-------------|-----|
| actagtaaaa | agcagcattg | ccaaataatc | cctaattttc | cactaaaaat | ataatgaaat | 60 |
| gatgttaaagc | tttttgaaaa | gttttaggtta | aacctactgt | tgtttagatta | atgtatttgt | 120 |
| tgcttccctt | tatctggaat | gtggcattag | cttttttatt | ttaaccctct | ttaattctta | 180 |
| ttcaattcca | tgacttaagg | ttggagagct | aaacactggg | atttttggat | aacagactga | 240 |
| cagttttgca | taattataat | cggcattgta | catagaaagg | atatggctac | cttttggttaa | 300 |
| atctgcactt | tctaaatata | aaaaaaggga | aatgaagtat | aatcaattt | ttgtataatc | 360 |
| tgtttgaaac | atgantttta | tttgcttaat | attanggctt | tgcccttttc | tgtttagtctc | 420 |
| ttggggatcct | gtgtaaaact | gttctcatta | aacaccaaac | agttaagtcc | attctctggt | 480 |
| actagctaca | aattccggtt | catattctac | ntaacaattt | aaattaactg | aaatatttct | 540 |
| anatggtcta | cttctgtcnt | ataaaaaacna | aacttgantt | nccaaaaaaa | aaaaaaaaaa | 600 |
| aaaaaa | | | | | | 606 |

<210> 56

<211> 183

<212> DNA

<213> Homo sapien

<400> 56

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| actagtatat | ttaaacttac | aggcttattt | gtaatgtaaa | ccaccatttt | aatgtactgt | 60 |
| aattaacatg | gttataatac | gtacaatcct | tcctcatcc | catcacacaa | ctttttttgt | 120 |
| gtgtgataaa | ctgatttttg | tttgcaataa | aaccttgaaa | aataaaaaaa | aaaaaaaaaa | 180 |
| aaa | | | | | | 183 |

<210> 57

<211> 622

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(622)

<223> n = A,T,C or G

<400> 57

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| actagtcaact | actgtcttct | ccttgtagct | aatcaatcaa | tattcttccc | ttgcctgtgg | 60 |
| gcagtggaga | gtgctgtctg | gtgtacgctg | cacctgccca | ctgagttggg | gaaagaggat | 120 |
| aatcagttag | cactgttctg | ctcagagctc | ctgatctacc | ccacccccta | ggatccagga | 180 |
| ctgggtcaaa | gctgcatgaa | accaggccct | ggcagcaacc | tgggaatggc | tggaggtggg | 240 |
| agagaacctg | acttctcttt | ccctctccct | cctccaacat | tactggaact | ctatcctgtt | 300 |
| agggatcttc | tgagcttggt | tccctgctgg | gtgggacaga | agacaaagga | gaagggangg | 360 |
| tctacaanaa | gcagcccttc | tttgtcctct | gggggttaatg | agcttgacct | ananttcagt | 420 |
| gaganaccan | aagcctctga | tttttaattt | cctnnaaatg | tttgaagtnt | atatntacat | 480 |
| atatatat | ctttnaatnt | ttgagtcttt | gatatgtctt | aaaatccant | ccctctgccn | 540 |
| gaaacctgaa | ttaaaacat | gaanaaaaaa | gtttncctta | aagatgttan | taattaattg | 600 |
| aaacttgaaa | aaaaaaaaaa | aa | | | | 622 |

<210> 58

<211> 433

<212> DNA

<213> Homo sapien

<400> 58

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|------------|------------|------------|-------------|------------|------------|-----|
| gaacaaattc | tgattgggta | tgtaccgtca | aaagacttga | agaaatttca | tgattttgca | 60 |
| gtgtggaagc | gttgaaaatt | gaaagttact | gcttttccac | ttgctcatat | agtaaaggga | 120 |
| tcctttcagc | tgccagtgtt | gaataatgta | tcattccagag | tgatgttatc | tgtgacagtc | 180 |
| accagcttta | agctgaacca | ttttatgaat | accaaataaa | tagacctctt | gtactgaaaa | 240 |
| catatttggt | actttaatcg | tgctgcttgg | atagaaatat | ttttactggg | tcttctgaat | 300 |
| tgacagtaaa | cctgtccatt | atgaatggcc | tactgttcta | ttatttggtt | tgacttgaat | 360 |
| ttatccacca | aagacttcat | ttgtgtatca | tcaataaagt | tgatgtttc | aactgaaaaa | 420 |
| aaaaaaaaaa | aaa | | | | | 433 |

<210> 59

<211> 649

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(649)

<223> n = A,T,C or G

<400> 59

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|------------|------------|------------|-------------|------------|-------------|-----|
| actagttatt | atctgacttt | cnggttataa | tcatttcta | gagtgtgaag | tagcctctgg | 60 |
| tgtcatttgg | atttgcattt | ctctgatgag | tgatgctatc | aagcaccttt | gctgggtgctg | 120 |
| ttggccatat | gtgtatgttc | cctggagaag | tgtctgtgct | gagccttggc | ccacttttta | 180 |
| attaggcgtn | tgtcttttta | ttactgagtt | gtaaganttc | tttatatatt | ctggattcta | 240 |
| gacccttata | agatacatgg | tttgcaataa | ttttctccca | ttctgtgggt | tgtgttttca | 300 |
| ctttatcgat | aatgtcctta | gacatataat | aaatttgtat | tttaaaagtg | acttgatttg | 360 |
| ggctgtgcaa | ggtgggctca | cgcttgtaat | cccagcactt | tgggagactg | aggtgggtgg | 420 |
| atcatatgan | gangctagga | gttcgaggtc | agcctggcca | gcatagcgaa | aacttgtctc | 480 |
| tacnaaaaaa | acaaaaatta | gtcaggcatg | gtgggtgcacg | tctgtaatac | cagcttctca | 540 |
| ggangctgan | gcacaaggat | cacttgaacc | ccagaangaa | gangttgcag | tgantcgaag | 600 |
| atcatgccag | ggcaacaaaa | atgagaactt | gtttaaaaaa | aaaaaaaaaa | | 649 |

<210> 60
 <211> 423
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(423)
 <223> n = A,T,C or G

<400> 60
 actagtccag gccttccagt tcaactgacaa acatggggaa gtgtgcccag ctggctggaa 60
 acctggcagt gataccatca agcctgatgt ccaaaagagc aaagaatatt tctccaagca 120
 gaagtgagcg ctgggctggt ttagtgccag gctgcggtgg gcagccatga gaacaaaacc 180
 tcttctgtat ttttttttc cattagtana acacaagact cngattcagc cgaattgtgg 240
 tgtcttacaa ggcagggtt tcctacaggg ggtgganaaa acagccttcc ttcctttggt 300
 aggaatggcc tgagttggcg ttgtgggcag gctactggtt tgtatgatgt attagtagag 360
 caaccatta atcttttgta gtttgatna aacttganct gagaccttaa acaaaaaaaaa 420
 aaa 423

<210> 61
 <211> 423
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(423)
 <223> n = A,T,C or G

<400> 61
 cgggactgga atgtaaagt aagttcggag ctctgagcac gggctcttcc cgccgggtcc 60
 tccctcccca gacccagag ggagaggccc accccgcccc gcccccccc agccctgct 120
 caggtctgag tatggtggg agtcgggggc cacaggcctc tagctgtgct gctcaagaag 180
 actggatcag ggtanctaca agtgggcggg ccttgccctt gggattctac cctgttccca 240
 atttggtgtt ggggtgcggg gtccctggcc cctttttcca cactncctcc ctcngacag 300
 caacctccct tggggcaatt gggcctggnt ctccnccgn tgttgcnaacc ctttgttgg 360
 ttaaggnttt taaaaatgtt annttttccc ntgcnggggt taaaaaagga aaaaactnaa 420
 aaa 423

<210> 62
 <211> 683
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(683)
 <223> n = A,T,C or G

<400> 62
 gctggagagg ggtacggact ttcttggagt tgtcccaggt tggaatgaga ctgaactcaa 60
 gaagagaccc taagagactg gggaatggtt cctgccttca ggaaagtga agacgcttag 120
 gctgtcaaca cttaaaggaa gtccccttga agcccagagt ggacagacta gaccattga 180

gctgtcaaca cttaaaggaa gtccccttga agcccagagt ggacagacta gaccattga

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tggggccact ggccatggtc cgtggacaag acattccngt gggccatggc acaccggggg 240
ggatcaaaat gtgtacttgt ggggtctcgc cccttgccaa aaccaaacca ntcccactcc 300
tgtcnttgga ctttcttccc attccctcct ccccaaatgc acttcccctc ctccctctgc 360
ccctcctgtg tttttggaat tctgtttccc tcaaaattgt taatttttta nttttngacc 420
atgaacttat gtttggggtc nangttcccc ttnccaatgc atactaatat attaatggtt 480
atttattttt gaaatatttt ttaatgaact tggaaaaaat tnntggaatt tccttncttc 540
cntttntttt ggggggggtg ggggngtggg ttaaaatttt ttggaancc cnatnggaaa 600
ttnttacttg gggccccctc naaaaaantn anttccaatt cttnnatngc cctntttccn 660
ctaaaaaaa ananannaaa aan 683

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<210> 63
<211> 731
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

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<400> 63
actagtcata aagggtgtgc gcgtcttcga cgtggcggtc ttggcgccac tgctgcgaga 60
cccggccctg gacctcaagg tcatccactt ggtgcgtgat cccgcgcggtg tggcgagttc 120
acggatccgc tcgcgccacg gcctcatccg tgagagccta cagggtggtg gcagccgaga 180
ccgcgagctc accgcatgcc cttcttggag gccgcggggc acaagcttgg cgcccaaaa 240
gaaggcgtn ggggcccgca aantaccacg ctctgggcgc tatggaangt cctcttgcaa 300
taatattggt tnaaaaactg canaanagcc cctgcancct cctgaactgg gntgcagggc 360
cncttacctn gtttgntgc ggttacaaag aacctgtttn ggaaaaccct nccnaaaacc 420
ttccgggaaa attntncaaa ttttntttgg ggaattnttg ggtaaaccct ccnaaaatgg 480
gaaacntttt tgcctnnaa antaaacct tnggttccgg ggcccccccc ncaaaaccct 540
ttttntttt tttntgcccc cantnncccc ccggggcccc tttttttngg ggaaaanccc 600
ccccctncc nanantttta aaaggnggg anaattttt nttnccccc gggncccccn 660
ggngntaaaa nggtttcncc cccccgagg gnggggnnnc ctcnnaaacc cntntcnna 720
cnctntttt n 731

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<210> 64
<211> 313
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(313)
<223> n = A,T,C or G

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<400> 64
actagttgtg caaaccacga ctgaagaaag acgaaaagtg ggaaataact tgcaacgtct 60
gttagagatg gttgctacac atgttgggtc ttagagagaa catcttgagg agcagattgc 120
taaagttgat agagaatatg aagaatgcat gtcagaagat ctctcggaat atattaaaga 180
gattagagat aagtatgaga agaaagctac tctaattaag tcttctgaag aatgaagatn 240
aaatgttgat catgtatata tatccatagt gaataaaatt gtctcagtaa agttgtaaaa 300
aaaaaaaaaaa aaa 313

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<210> 65

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<211> 420
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(420)
 <223> n = A,T,C or G

<400> 65
 actagtcccc tggcaggcaa gggcttccaa ctgaggcagt gcatgtgtgg cagagagagg 60
 caggaagctg gcagtggcag cttctgtgtc tagggagggg tgtggctccc tccttccttg 120
 tctgggaggt tggagggaag aatctaggcc ttagcttgcc ctccctgccac ccttcccctt 180
 gtagatactg ccttaacact cctcctcttc tcagctgtgg ctgccaccca agccagggtt 240
 ctccgtgctc actaatttat ttccaggaaa ggtgtgtgga agacatgagc cgtgtataat 300
 atttgtttta acattttcat tgcaagtatt gaccatcatc cttggttggtg tatcgttgta 360
 acacaaatta atgatattaa aaagcatcca aacaaagccn annnnnaana nnannngaaa 420

<210> 66
 <211> 676
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(676)
 <223> n = A,T,C or G

<400> 66
 actagtttcc tatgatcatt aaactcattc tcagggttaa gaaaggaatg taaatttctg 60
 cctcaatttg tacttcatca ataagttttt gaagagtgca gatttttagt caggtcttaa 120
 aaataaactc acaaactctg atgcatttct aaattctgca aatgtttcct ggggtgactt 180
 aacaaggaat aatcccacaa tatactagc tacctaatac atggagctgg ggctcaaccc 240
 actgttttta aggatttgcg cttacttggt gctgaggaaa aataagtagt tccgagggaa 300
 gtagttttta aatgtgagct tatagatngg aaacagaata tcaacttaat tatggaaatt 360
 gttagaaacc tgttctcttg ttatctgaat cttgattgca attactattg tactggatag 420
 actccagccc attgcaaagt ctgagatc ttanctgtgt agttgaattc cttggaaatt 480
 ctttttaaga aaaaattgga gtttnaaaga aataaacccc tttgttaaat gaagcttggc 540
 tttttggtga aaaanaatca tcccgaggg cttattgttt aaaaanggaa ttttaagcct 600
 ccctggaaaa anttgtaaat taaatgggga aaatgntggg naaaaattat ccgttagggg 660
 ttaaagggaa aactta 676

<210> 67
 <211> 620
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(620)
 <223> n = A,T,C or G

<400> 67
 caccattaaa gctgcttacc aagaacttcc ccagcatttt gacttccttg tttgatagct 60

CCCTGGAAAA

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<210> 68
<211> 551
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (1)...(551)
<223> n = A,T,C or G
```

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<210> 69
<211> 396
<212> DNA
<213> Homo sapien
```

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<220>
<221> misc_feature
<222> (1)...(396)
<223> n = A,T,C or G
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<210> 70
<211> 536
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<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(536)
<223> n = A,T,C or G

<400> 70
actagtgcaa aagcaaatat aaacatcgaa aaggcgttcc tcacgttagc tgaagatata 60
cttcgaaaga cccctgtaaa agagcccaac agtgaaaatg tagatatcag cagtggagga 120
ggcgtgacag gctggaagag caaatgctgc tgagcattct cctgttccat cagttgccat 180
ccactacccc gttttctctt cttgctgcaa aataaaccac tctgtccatt tttaactcta 240
aacagatatt ttgttttctc atcttaacta tccaagccac ctattttatt tgttctttca 300
tctgtgactg cttgctgact ttatcataat tttcttcaaa caaaaaaatg tatagaaaaa 360
tcatgtctgt gacttcattt ttaaatgnta cttgctcagc tcaactgcat ttcagtgtgt 420
ttatagtcca gttcttatca acattnaaac ctatngcaat catttcaaat ctattctgca 480
aattgtataa gaataaaaagt tagaatttaa caattaaaaa aaaaaaaaaa aaaaaa 536

<210> 71
<211> 865
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(865)
<223> n = A,T,C or G

<400> 71
gacaaagcgt taggagaaga anagaggcag ggaanactnc ccaggcacga tggccncctt 60
cccaccagca accagcgccc cccaccagcc cccaggcccg gacgacgaag actccatcct 120
ggattaatct nacctctntc gectgnccca ttcctacctc ggagggtggag gccggaaagg 180
tcncaccaag aganaantcg ctgccaacac caaccgcccc agccctggcg ggcacganag 240
gaaactggtg accaatctgc agaattctna gaggaanaag cnagggggccc cgcgctnaga 300
cagagctgga tatgangcca gaccatggac nctacncccn ncaatncana cgggactgcg 360
gaagatggan gaccncgac nngatcaggc cngctnncca nccccccacc cctatgaatt 420
attcccgtctg aangaatctc tgannggctt ccannaaagc gcctccccnc cnaacgnaan 480
tncaacatng ggattanang ctgggaaactg naaggggcaa ancctnnaat atccccagaa 540
acaantcttc cnaanaaaac tggggcncct catnggtggn accaactatt aactaaaccg 600
cacgccaagn aantataaaa ggggggcccc tccnccgngn accccctttt gtcccttaat 660
ganggttate cnccttgctg accatggtn cennnttctgt ntgnatgttt ccnctcccct 720
ccncttatnt cnagccgaac tcnnatttnc ccgggggtgc natcnantng tncncttttn 780
ttngttgncc cngcccttcc cgnccggaacn cgtttccccc ttantaacgg caccgggggn 840
aagggtgntt ggccccctcc ctccc 865

<210> 72
<211> 560
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(560)

<223> n = A,T,C or G

<400> 72

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|------------|------------|-------------|------------|------------|------------|-----|
| cctggacttg | tcttggttcc | agaacctgac | gacccggcga | cggcgacgtc | tcttttgact | 60 |
| aaaagacagt | gtccagtgtc | ccngcctagg | agtctacggg | gaccgcctcc | cgcgccgcca | 120 |
| ccatgcccaa | cttctctggc | aaactggaaaa | tcatccgata | ggaaaacttc | gangaattgc | 180 |
| tчнаantgct | gggggtgaat | gtgatgctna | ngaanattgc | tgtggctgca | gcgtccaagc | 240 |
| cagcagtgga | gacnaacag | gagggagaca | ctttctacat | caaaacctcc | accaccgtgc | 300 |
| gcaccacaaa | gattaacttc | nnngttgggg | aggantttga | ggancaaact | gtggatngga | 360 |
| ngcctgtnaa | aacctggtga | aatgggagaa | tganaataaa | atggtctgtg | ancanaaact | 420 |
| cctgaaagga | gaaggccccc | anaactcctg | gaccngaaaa | actgaccnc | cnatngggga | 480 |
| actgatnctt | gaacctgaa | cgggcgggat | ganccttttt | tnttgcnc | naanggggtc | 540 |
| tttcnctttc | ccccaaaaaa | | | | | 560 |

<210> 73

<211> 379

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(379)

<223> n = A,T,C or G

<400> 73

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| ctggggancc | ggcggtnngc | nccatntcnn | gncgcgaagg | tggcaataaa | aancncnctga | 60 |
| aaccgcncaa | naaacatgcc | naagatatgg | acgaggaaga | tngngctttc | nngnacaanc | 120 |
| gnanngagga | acanaacaaa | ctcnangagc | tctcaagcta | atgccgcggg | gaagggggccc | 180 |
| ttggccacnn | gtggaattaa | gaaatctggc | aaanngtann | tgttccttgt | gcctnangag | 240 |
| ataagngacc | ctttatttca | tctgtattta | aacctctctn | ttccctgnca | taacttcttt | 300 |
| tnccacgtan | agntggaant | anttgttgtc | ttggactgtt | gtncatttta | gannaaactt | 360 |
| ttgttcaaaa | aaaaaataa | | | | | 379 |

<210> 74

<211> 437

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(437)

<223> n = A,T,C or G

<400> 74

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| actagttcag | actgccacgc | caaccccaga | aaatacccca | catgccagaa | aagtgaagtc | 60 |
| ctaggtgttt | ccatctatgt | ttcaatctgt | ccatctacca | ggcctcgcca | taaaaacaaa | 120 |
| acaaaaaaac | gctgccaggt | tttanaagca | gttctggtct | caaaaccatc | aggatcctgc | 180 |
| caccagggtt | cttttgaaat | agtaccacat | gtaaaaaggga | atttggcttt | cacttcatct | 240 |
| aatcactgaa | ttgtcaggct | ttgattgata | attgtagaaa | taagtagcct | tctgttggtg | 300 |
| gaataagtta | taatcagtat | tcatctcttt | gttttttgtc | actcttttct | ctctnattgt | 360 |
| gtcatttgta | ctgtttgaaa | aatatttctt | ctataaaaatt | aaactaacct | gccttaaaaa | 420 |
| aaaaaaaaaa | aaaaaaaa | | | | | 437 |

<210> 75

CTGTTTCAAAA

<211> 579
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(579)
 <223> n = A,T,C or G

<400> 75

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| ctccgtcgcc | gccaaagatga | tgtgcggggc | gccctccgcc | acgcagccgg | ccaccgccga | 60 |
| gacccagcac | atcgccgacc | aggtagagtc | ccagcttgaa | gagaaagaaa | acaagaagtt | 120 |
| ccctgtgttt | aaggccgtgt | cattcaagag | ccaggtggtc | gcggggacaa | actacttcat | 180 |
| caaggtgcac | gtcggcgacg | aggacttcgt | acacctgcga | gtgttccaat | ctctccctca | 240 |
| tgaaaacaag | cccttgacct | tatctaacta | ccagaccaac | aaagccaagc | atgatgagct | 300 |
| gacctatttc | tgatctgac | tttgacaag | gcccttcagc | cagaagactg | acaaagtcac | 360 |
| cctccgtcta | ccagagcgtg | cacttgtgat | cctaaaataa | gcttcacctc | cgggctgtgc | 420 |
| ccttgggggtg | gaagggggcan | gatctgcact | gcttttgcac | ttctcttcc | aaatttcatt | 480 |
| gtgttgattc | tttccctcca | ataggtgatc | tttattactt | tcagaatatt | ttccaaatna | 540 |
| gatatatattt | naaaatcctt | aaaaaaaaa | aaaaaaaaa | | | 579 |

<210> 76
 <211> 666
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(666)
 <223> n = A,T,C or G

<400> 76

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| gtttatccta | tctctccaac | cagattgtca | gctccttgag | ggcaagagcc | acagtatatt | 60 |
| tcctgttttc | ttccacagtg | cctaataata | ctgtggaact | aggttttaat | aattttttta | 120 |
| ttgatgttgt | tatgggcagg | atggcaacca | gaccattgtc | tcagagcagg | tgctggctct | 180 |
| ttcctggcta | ctccatgttg | gctagcctct | ggtaacctct | tacttattat | cttcaggaca | 240 |
| ctcactacag | ggaccaggga | tgatgcaaca | tccttgtctt | tttatgacag | gatgtttgct | 300 |
| cagcttctcc | aacaataaaa | agcacgtggt | aaaacacttg | cggatattct | ggactgtttt | 360 |
| taaaaaatat | acagtttacc | gaaaatcata | ttatcttaca | atgaaaagga | ntttatagat | 420 |
| cagccagtga | acaacctttt | cccaccatac | aaaaattcct | tttcccgaan | gaaaanggct | 480 |
| ttctcaataa | ncctcacttt | cttaanatct | tacaagatag | ccccganatc | ttatcgaaac | 540 |
| tcatttttagg | caaatatgan | ttttattgtn | cgttacttgt | ttcaaaattt | ggtattgtga | 600 |
| atatcaatta | ccacccccat | ctcccatgaa | anaaanggga | aanggtgaan | ttcntaancg | 660 |
| cttaaa | | | | | | 666 |

<210> 77
 <211> 396
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(396)
 <223> n = A,T,C or G

```

<400> 77
ctgcagcccg ggggatccac taatctacca nggttatttg gcagctaatt ctanatttgg      60
atcattgccc aaagttgcac ttgctgggtct cttgggattt ggccttggaa aggtatcata      120
catanganta tgccanaata aattccattt ttttgaaaat canctccntg gggctggttt      180
tgggtccacag cataacangc actgcctcct tacctgtgag gaatgcaaaa taaagcatgg      240
attaagtgag aagggagact ctgagccttc agcttcctaa attctgtgtc tgtgactttc      300
gaagtttttt aaacctctga atttgtacac atttaaaatt tcaagtgtac tttaaaataa      360
aatacttcta atgggaacaa aaaaaaaaaa aaaaaa

```

```

<210> 78
<211> 793
<212> DNA
<213> Homo. sapien

```

```

<220>
<221> misc_feature
<222> (1)...(793)
<223> n = A,T,C or G

```

```

<400> 78
gcctcctagc cgccgactca cacaaggcag gtgggtgagg aaatccagag ttgccatgga      60
gaaaattcca gtgtcagcat tcttgctcct tgtggccctc tctacactc tggccagaga      120
taccacagtc aaacctggag ccaaaaagga cacaaggac tctcgaccca aactgccccca      180
gaccctctcc agaggttggg gtgaccaact catctggact cagacatatg aagaagctct      240
atataaatcc aagacaagca acaaaccctt gatgattatt catcacttgg atgagtgcc      300
acacagtcna gctttaaaaga aagtgtttgc tgaaaataaa gaaatccaga aattggcaga      360
gcagtttgtc ctcctcaatc tggtttatga aacaactgac aaacaccttt ctcctgatgg      420
ccagtatgtc ccaggattat gtttgttgac ccatctctga cagttgaagc cgatatcctg      480
ggaagatatt cnaaccgtct ctatgcttac aaactgcaga tacgctctgt tgcttgacac      540
atgaaaaagc tctcaagttg ctnaaaatga attgtaagaa aaaaaatctc cagccttctg      600
tctgtcggct tgaaaattga aaccagaaaa atgtgaaaaa tggctattgt ggaacanatn      660
gacacctgat taggttttgg ttatgttcac cactattttt aanaaaanan nttttaaaat      720
ttggttcaat tntctttttn aaacaatntg tttctacntt gnganctgat ttctaaaaaa      780
aataatnttt ggc

```

```

<210> 79
<211> 456
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(456)
<223> n = A,T,C or G

```

```

<400> 79
actagtatgg ggtgggaggc cccacccttc tcccctaggc gctgttcttg ctccaaaggg      60
ctccgtggag agggactggc agagctgang ccacctgggg ctggggatcc cactcttctt      120
gcagctgttg agcgaccta accactgggc atgccccac ccctgctctc cgcaccgcgt      180
tctccccgac cccangacca ggctacttct cccctcctct tgccctcctc ctgcccctgc      240
tgctctgat cgtangaatt gangantgtc ccgccttgtg gctganaatg gacagtggca      300
ggggctggaa atgggtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gcnccccccc      360
tgcaagaccg agattgaggg aaancatgtc tgctgggtgt gaccatgttt cctctccata      420

```

CCCTT "CCCTT" CCCTT

456

```
<220>
<221> misc_feature
<222> (1)...(284)
<223> n = A,T,C or G
```

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| ctttgtacct | ctagaaaaga | taggtattgt | gtcatgaaac | ttgagtttaa | attttatata | 60 |
| taaaactaaa | agtaatgctc | acttttagcaa | cacatactaa | aattggaacc | atactgagaa | 120 |
| gaatagcatg | acctccgtgc | aaacaggaca | agcaaatttg | tgatgtgttg | attaaaaaga | 180 |
| aataaataaa | tgtgtatatg | tgtaacttgt | atgtttatgt | ggaatacaga | ttgggaaata | 240 |
| aaatgtattt | cttactgtga | aaaaaaaaaa | aaaaaaaaaa | aana | | 284 |

```
<220>  
<221> misc_feature  
<222> (1)...(671)  
<223> n = A,T,C or G
```

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| gccaccaaca | ttccaagcta | ccctgggtac | ctttgtgcag | tagaagctag | tgagcatgtg | 60 |
| agcaagcgg | gtgcacacgg | agactcatcg | ttataattta | ctatctgcc | agagtagaaa | 120 |
| gaaaggctgg | ggatatattg | gttggtctgg | ttttgatttt | ttgcttgttt | gtttgttttg | 180 |
| tactaaaaca | gtattatctt | ttgaatatcg | tagggacata | agtatataca | tgttatccaa | 240 |
| tcaagatggc | tagaatggcg | cctttctgag | tgtctaaaac | ttgacacccc | tggtaaatct | 300 |
| ttcaacacac | ttccactgcc | tgcgtaatga | agttttgatt | catttttaac | cactggaatt | 360 |
| tttcaatgcc | gtcatttttc | gttatgatnat | tttgcacttt | gagattaaaa | tgccatgtct | 420 |
| atttgatttag | tcttattttt | ttatttttac | aggcttatca | gtctcactgt | tggctgtcat | 480 |
| tgtgacaaaag | tcaataaaac | cccnaggac | aacacacagt | atgggatcac | atattgtttg | 540 |
| acattaagct | ttggccaaaa | aatgttgcac | gtgttttacc | tcgacttgct | aaatcaatan | 600 |
| canaaaaggct | ggctnataat | gttggtggtg | aaataattaa | tnantaacca | aaaaaaaaan | 660 |
| aaaaaaaaaaa | a | | | | | 671 |

<213> Homo sapien

<222> (1) ... (217)
<223> n = A, T, C or G

<400> 82

```

ctgcagatgt ttcttgaatg ctttgtcaaa ttaanaaagt taaagtgcaa taatgtttga      60
agacaataag tgggtggtgta tcttgtttct aataagataa acttttttgt ctttgcttta    120
tcttattagg gagttgtatg tcagtgtata aaacatactg tgtggtataa caggcttaat      180
aaattcttta aaaggaaaaa aaaaaaaaaa aaaaaaa      217

```

```

<210> 83
<211> 460
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(460)
<223> n = A,T,C or G

```

```

<400> 83
cgcgagtggg agcaccagga tctcgggctc ggaacgagac tgcacggatt gttttaagaa      60
aatggcagac aaaccagaca tgggggaaat cgccagcttc gatnaggcca agctgaanaa    120
aacggagacg caggagaaga acaccctgcc gaccaaagag accattgagc angagaagcg      180
gagtgaattt tcctaagatc ctggaggatt tcctaccccc gtcctcttcg agaccccagt    240
cgtgatgtgg aggaagagcc acctgcaaga tggacacgag ccacaagctg cactgtgaac     300
ctgggcactc cgcgccgatg ccaccggcct gtgggtctct gaagggacct cccccaatcg     360
gactgccaaa ttctccggtt tgccccggga tattatacaa nattatttgt atgaataatg     420
annataaaac acacctcgtg gcancaaana aaaaaaaaaa      460

```

```

<210> 84
<211> 323
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(323)
<223> n = A,T,C or G

```

```

<400> 84
tgggtgatct tggctctgtg gagctgctgg gacgggatct aaaagactat tctggaagct      60
gtggtccaan gcattttgct ggcttaacgg gtcccgaac aaaggacacc agctctctaa     120
aattgaagtt taccganat aacaatcttt tgggcagaga tgcctatattt aacaaacncc     180
gtccctgcgc aacaacnaac aatctctggg aaataccggc catgaacntg ctgtctcaat     240
cnancatctc tctagctgac cgatcatatc gtcccagatt actacanatc ataataattg     300
atttctgtga naaaaaaaaaa aaa      323

```

```

<210> 85
<211> 771
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(771)
<223> n = A,T,C or G

```

```

<400> 85

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1. The first part of the document is a list of names and their corresponding addresses. The names are listed in a column on the left, and the addresses are listed in a column on the right. The names are: John Doe, Jane Smith, Robert Brown, Mary White, and David Black. The addresses are: 123 Main St, 456 Elm St, 789 Oak St, 101 Pine St, and 202 Cedar St.

```
<220>
<221> misc_feature
<222> (1)...(628)
<223> n = A,T,C or G
```

```
<210> 87
<211> 518
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(518)
<223> n = A,T,C or G
```

| | | | | | | | |
|------------|------------|------------|-------------|-------------|-------------|--|-----|
| <400> 87 | | | | | | | |
| ttttttattt | tttttagaga | gtagttcagc | ttttatttat | aaattttattg | cctgtttttat | | 60 |
| tataacaaca | ttatactggt | tatggtttta | tacatatggt | tcaaaatgta | taatacatca | | 120 |
| agtagtacag | ttttaaaatt | ttatgcttaa | aacaagtttt | gtgtaaaaaa | tgcagataca | | 180 |
| ttttacatgg | caaatcaatt | tttaagtcac | cctaaaaaatt | gattttttttt | tgaaattttta | | 240 |
| aaacacattt | aatttcaatt | tctctcttat | ataaccttta | ttactatagc | atgggtttcca | | 300 |
| ctacagttta | acaatgcagc | aaaattccca | tttcacggta | aattgggttt | taaagcgcaa | | 360 |

```

ggttaaaatg ctttgaggat cctnaatacc ctttgaactt caaatgaagg ttatggttgt 420
naattttaacc ctcatgccat aagcagaagc acaagtttag ctgcattttg ctctaaactg 480
taaaancgag cccccgttg aaaaagcaaa agggaccc 518

```

<210> 88

<211> 1844

<212> DNA

<213> Homo sapien

<400> 88

```

gagacagtga atcctagtat caaaggattt ttggcctcag aaaaagttgt tgattatttt 60
tattttattt tatttttcga gactccgtct caaaaaaaaa aaaaaaaaaa agaatcacia 120
ggtatttgct aaagcatttt gagctgcttg gaaaaaggga agtagttgca gtagagtttc 180
ttccatcttc ttggtgctgg gaagccatat atgtgtcttt tactcaagct aaggggtata 240
agcttatgtg ttgaatttgc tacatctata ttccacatat tctcacaata agagaatttt 300
gaaatagaaa tatcatagaa catttaagaa agtttagtat aaataatatt ttgtgtgttt 360
taatcccttt gaagggatct atccaaagaa aatattttac actgagctcc ttcctacacg 420
tctcagtaac agatcctgtg ttagtctttg aaaatagctc atttttttaa tgtcagttag 480
tagatgtagc atacatatga tgtataatga cgtgtattat gttacaatg tctgcagatt 540
ttgtaggaat acaaaacatg gcctttttta taagcaaaac gggccaatga ctagaataac 600
acatagggca atctgtgaat atgtattata agcagcattc cagaaaagta gttggtgaaa 660
taattttcaa gtcaaaaagg gatatggaaa ggggaattatg agtaacctct attttttaag 720
ccttgctttt aaattaaacg ctacagccat ttaagccttg aggataataa agcttgagag 780
taataatgtt aggttagcaa aggttttagat gtatcacttc atgcatgcta ccatgatagt 840
aatgcagctc ttcgagtcac ttctggctcat tcaagatatt cacccttttg cccatagaaa 900
gcaccctacc tcacctgctt actgacattg tcttagctga tcacaagatc attatcagcc 960
tccattattc cttactgtat ataaaataca gagttttata ttttcctttc ttcgtttttc 1020
accatattca aaacctaaat ttgtttttgc agatggaatg caaagtaatc aagtgttcgt 1080
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ttacacaaaa cttgttttta gcataaaatt ttaaaactgt actacttgat gtattataca 1740
ttttgaacca tatgtattaa accataaaca gtataatgtt gttataataa aacaggcaat 1800
aaattttata ataaaagctg aaaaaaaaaa aaaaaaaaaa aaaa 1844

```

<210> 89

<211> 523

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(523)

<223> n = A,T,C or G

<400> 89

```

tttttttttt ttttttttag caatccacat ttattgatca cttattatgt accaggcact 60

```



```

gggataaaga tgactgttag tcactcacag taaggaagaa aactagcaaa taagacgatt 120
acaatatgat gtagaaaatg ctaagccaga gatatagaaa ggtcctattg ggtccttctg 180
tcacctgtgc tttccacatc cctacccttc acaggccttc cctccagctt cctgcccccg 240
ctccccactg cagatccccct gggattttgc cttagagctaa acgagganat gggccccctg 300
gccctggcat gacttgaacc caaccacaga ctgggaaagg gagcctttcg anagtggatc 360
actttgatna gaaaacacat aggggaattga agagaaantc cccaaatggc caccctgtgt 420
ggtgctcaag aaaagtttgc agaattgata aatgaaggat caagggaatt aatanatgaa 480
taattgaatg gtggctcaat aagaatgact ncnttgaatg acc 523

```

```

<210> 90
<211> 604
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(604)
<223> n = A,T,C or G

```

```

<400> 90
ccagtgtggt ggaatgcaaa gattaccccc gaagctttcg agaagctggg attccctgca 60
gcaaaggaaa tagccaatat gtgtcgtttc tatgaaatga agccagaccg agatgtcaat 120
ctcaccacc aactaaatcc caaagtcaaa agcttcagcc agtttatctc agagaaccag 180
gggagccttc aagggcattg agaaaatcag ctgttcagat aggcctctgc accacacagc 240
ctctttcctc tctgatcctt ttctctttta cggcacaaca ttcatgtttg acagaacatg 300
ctggaatgca attgtttgca acaccgaagg atttcctgcg gtcgcctctt cagtaggaag 360
cactgcattg gtgataggac acggtaattt gattcacatt taacttgcta gttagtata 420
aggggtggta cacctgtttg gtaaaatgag aagcctcgga aacttgggag cttctctcct 480
accactaatg gggagggcag attattactg ggatttctcc tggggtgaat taatttcaag 540
ccctaattgc tgaaattccc ctnggcaggc tccagttttc tcaactgcat tgcaaaaattc 600
cccc 604

```

```

<210> 91
<211> 858
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(858)
<223> n = A,T,C or G

```

```

<400> 91
tttttttttt ttttttttta tgattattat tttttttatt gatctttaca tcctcagtgt 60
tggcagagtt tctgatgctt aataaacatt tgttctgata agataagtgg aaaaaattgt 120
catttcctta ttcaagccat gcttttctgt gatattctga tcctagttga acatacagaa 180
ataaatgtct aaaacagcac ctcgattctc gtctataaca ggactaagtt cactgtgata 240
ttaaataagc ttggctaaaa tgggacatga gtggaggtag tcacacttca gcgaagaaag 300
agaatctcct gtataatctc accaggagat tcaacgaatt ccaccacact ggactagtgg 360
atccccggg ctgcagggaat tcgatatcaa gcttatcgat accgtcgacc tcgagggggg 420
gcccggatcc caattcgccc tatagttagt ttaccctacg gcgctcactg gccgtcgttt 480
tacaacgtcg tgactgggaa aaccctggcg ttaccctact taatcgctt gcagcacatc 540
cccctttcgc cagctggcgt aatagcgaan agcccgacc gatcgccctt ncaacagttg 600
cgcagcctga atggcgaatg ggacgcgccc tgtagcggcg cattaaagcg cggcnggggtg 660

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tggnggntcc cccacgtgac cgntacactt ggcagcgcct tacgccggtc nttecgctttc 720
ttcccttccct ttctcgcacc gttegcggg tttccccgnn agctnttaat cggggggnctc 780
cctttanggg tncnaattaa nggnttacng gaccttngan cccaaaaact ttgattaggg 840
ggaaggtccc cgaagggg 858

```

```

<210> 92
<211> 585
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(585)
<223> n = A,T,C or G

```

```

<400> 92
gttgaatctc ctggtgagat tatacaggag attctctttc ttcgctgaag tgtgactacc 60
tccactcatg tcccatTTTA gccaaGctta tTTaagatca cagtgaactt agtcctgtta 120
tagacgagaa tcgaggtgct gttttagaca tttatttctg tatgttcaac taggatcaga 180
atatcacaga aaagcatggc ttgaataagg aaatgacaat tttttccact tatctgatca 240
gaacaaatgt ttattaagca tcagaaactc tgccaacact gaggatgtaa agatcaataa 300
aaaaaataat aatcatnann naaanannan nngaagggcg gccgccaccg cggtgagct 360
ccagcttttg ttcccttttag tgaggggttaa ttgcgcgctt ggcgttaatc atgggtcatag 420
ctgtttcctg tgtgaaattg ttatccggct cacaattccn cncaacatac gagccgggaa 480
gentnangtg taaaagcctg ggggtgccta attgagtgag ctnactcaca ttaattgngt 540
tgcgtccac ttgcccgctt ttccantccg ggaaacctgt tcgnc 585

```

```

<210> 93
<211> 567
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(567)
<223> n = A,T,C or G

```

```

<400> 93
cggcagtgtt gctgtctgcg tgtccacctt ggaatctggc tgaactggct gggaggacca 60
agactgcggc tgggggtggc anggaaggga accgggggct gctgtgaagg atcttggaac 120
ttccctgtac ccaccttccc ctgtctcat gtttgtanag gaaccttggt cggccaagc 180
ccagtttccct tgtgtgatac actaatgtat ttgctttttt tgggaaatan anaaaaatca 240
attaaattgc tantgtttct ttgaannnnn nnnnnnnnnn nnnnnnnngg ggggncgccc 300
ccncgngga aacnccccct tttgttccct ttaattgaaa ggtaattng cncncntggc 360
gttaancnt gggccaaaanc tngttncccg tgntgaaatt gttnatcccc tcccaaattc 420
cccccnnc ttccaaaccc ggaaancctn annntgttna ancccgggg gttgcctaan 480
ngnaattnaa ccnaaccccc nttaaang nntttgcncn ccacnngccc cnccttccca 540
nttcggggaa aacctntcc gtgccca 567

```

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<210> 94
<211> 620
<212> DNA
<213> Homo sapien

```

<220>
 <221> misc_feature
 <222> (1)...(620)
 <223> n = A,T,C or G

<400> 94
 actagtcaaa aatgctaaaa taatttgga gaaaatattt ttaagtagt gttatagttt 60
 catgtttatc ttttattatg ttttgtgaag ttgtgtcttt tcactaatta cctatactat 120
 gccaatattt ccttatatct atccataaca tttatactac atttgtaana naatatgcac 180
 gtgaaactta acactttata aggtaaaaat gaggtttcca anatttaata atctgatcaa 240
 gttcttggtta tttccaaata gaatggactt ggtctgttaa gggctaagga gaagaggaag 300
 ataagggtta aagttgttaa tgaccaaaca ttctaaaaga aatgcaaaaa aaaagtttat 360
 tttcaagcct tcgaactatt taaggaaagc aaaatcattt cctaaatgca tatcatttgt 420
 gagaatttct cattaatatt ctgaatcatt catttcacta aggctcatgt tnactccgat 480
 atgtctctaa gaaagtacta tttcatggtc caaacctggt tgccatantt gggtaaaggc 540
 tttcccttaa gtgtgaaant atttaaaatg aaattttcct ctttttaaaa attctttana 600
 aggggttaagg gtgttgaggga 620

<210> 95
 <211> 470
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(470)
 <223> n = A,T,C or G

<400> 95
 ctgcaccttc tctgcacagc ggatgaaccc tgagcagctg aagaccagaa aagccactat 60
 nactttntgc ttaattcang agcttacang attcttcaaa gagtngtcc agcatccttt 120
 gaaacatgag ttcttaccag cagaagcaga cctttacccc accacctcag cttcaacagc 180
 agcaggtgaa acaacccatc cagcctccac ctnaggaaat atttggtccc acaaccaagg 240
 agccatgcca ctcaaagggt ccacaacctg naaacacaaa nattccagag ccaggctgta 300
 ccaagggtccc tgagccaggg ctgtaccaan gtccctgagc cagggtgtac caangtcctt 360
 gagccaggat gtaccaaggt ccctgancca ggttggtcaa ggtccctgag ccagggtaca 420
 ccaagggcct gngccaggca gcatcaangt ccctgaccaa ggcttatcaa 470

<210> 96
 <211> 660
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(660)
 <223> n = A,T,C or G

<400> 96
 tttttttttt tttttttttt ggaattaaaa gcaatttaat gagggcagag caggaaacat 60
 gcatttcttt tcattcgaat cttcagatga accctgagca gccgaagacc agaaaagcca 120
 tgaagacttt ctgcttaatt caggggctta caggattctt cagagtgtgt gtgaacaaaa 180
 gctttatagt acgtattttt aggatacaaa taagagagag actatggctt ggggtgagaa 240
 tgtactgatt acaaggtcta cagacaatta agacacagaa acagatggga agaggggtgnc 300

```

cagcatctgg nggttggtt ctcaagggt tgtctgtgca ccaaattact tctgcttggn 360
cttctgctga gctgggcctg gagtgaccgt tgaaggacat ggctctggta cctttgtgta 420
gcctgncaca ggaacttttg tgtatccttg ctcaaggact ttgatggcac ctggctcagg 480
aaacttgatg aagccttggt caaggacct tgatgcttgc tggctcaggg accttggnn 540
ancctgggct canggacctt tgnncnaacc ttggcttcaa gggacccttg gnacatcctg 600
gcnnaggac ccttggncc aacctgggc ttnagggacc ctttgntnc nanccttg 660

```

```

<210> 97
<211> 441
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(441)
<223> n = A,T,C or G

```

```

<400> 97
gggaccatac anagtattcc tctcttcaca ccaggaccag ccactgttgc agcatgagtt 60
cccagcagca gaagcagccc tgcacccac cccctcagct tcagcagcag caggtgaaac 120
agccttgcca gcctccacct caggaacct gcaccccaa aaccaaggag ccctgccacc 180
ccaaggtgcc tgagccctgc caccacaaag tgctgagcc ctgccagccc aaggttccag 240
agccatgcca cccaagggtg cctgagccct gcccttcaat agtcactcca gcaccagccc 300
agcagaanac caagcagaag taatgtggtc cacagccatg cccttgagga gccggccacc 360
agatgctgaa tccctatcc cattctgtgt atgagtccca tttgccttgc aattagcatt 420
ctgtctcccc caaaaaaaaa a 441

```

```

<210> 98
<211> 600
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(600)
<223> n = A,T,C or G

```

```

<400> 98
gtattcctct cttcacacca ggaccagcca ctgttgagc atgagttccc agcagcagaa 60
gcagccctgc atccaccccc ctacagcttca gcagcagcag gtgaaacagc cttgccagcc 120
tccacctcag gaacctatgca tccccaaaac caaggagccc tgccaccca aggtgcctga 180
gccctgccac ccaaagtgc ctgagccctg ccagcccaag gttccagagc catgccaccc 240
caaggtgcct gagccctgcc cttcaatagt cactccagca ccagcccagc agaanaccaa 300
gcagaagtaa tgtggtccac agccatgccc ttgaggagcc ggccaccana tgctgaatcc 360
cctatcccat tctgtgtatg agtcccattt gccttgcaat tagcattctg tctcccccaa 420
aaaagaatgt gctatgaagc tttctttcct acacactctg agtctctgaa tgaagctgaa 480
ggtcttaant acagantag ttttcagctg ctcaaatc tctgaagaaa agatttaaga 540
tgaaaggcaa atgattcagc tccttattac ccattaaat tcnctttcaa ttccaaaaaa 600

```

```

<210> 99
<211> 667
<212> DNA
<213> Homo sapien

```

<220>
 <221> misc_feature
 <222> (1)...(667)
 <223> n = A,T,C or G

<400> 99
 actagtgact gagttcctgg caaagaaatt tgacctggac cagttgataa ctcatgtttt 60
 accattttaa aaaatcagtg aaggatttga gctgctcaat tcaggacaaa gcattcgaac 120
 ggtcctgacg ttttgagatc caaagtggca ggaggtctgt gttgtcatgg tgaactggag 180
 tttctcttgt gagagttccc tcatctgaaa tcatgtatct gtctcacaaa tacaagcata 240
 agtagaagat ttgttgaaga catagaaccc ttataaagaa ttattaacct ttataaacat 300
 ttaaagtctt gtgagcacct gggaattagt ataataacaa tgttnatatt tttgatttac 360
 attttgtaag gctataattg tatcttttaa gaaaacatac cttggatttc tatgttgaaa 420
 tggagatttt taagagtttt aaccagctgc tgcagatata ttactcaaaa cagatatagc 480
 gtataaagat atagtaaagtg catctcctag agtaatatcc acttaacaca ttggaaacta 540
 ttatttttta gatttgaata tnaatgttat tttttaaaca cttgttatga gttacttggg 600
 attacatttt gaaatcagtt cattccatga tgcannattac tgggattaga ttaagaaaga 660
 cggaaaa 667

<210> 100
 <211> 583
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(583)
 <223> n = A,T,C or G

<400> 100
 gttttgtttg taagatgac acagtcattgt tacactgac taaaggacat atatataacc 60
 ctttaaaaaa aaaatcactg cctcattctt atttcaagat gaatttctat acagactaga 120
 tgtttttctg aagatcaatt agacattttg aaaatgattt aaagtgtttt ccttaatgtt 180
 ctctgaaaac aagtttcttt tgtagtttta accaaaaaag tgcccttttt gtcactggat 240
 tctcctagca ttcattgattt ttttttcata caatgaaatt aaaattgcta aaatcatgga 300
 ctggctttct gggttgattt caggtaagat gtgtttaagg ccagagcttt tctcagtatt 360
 tgattttttt ccccaatatt tgatttttta aaaatataca catnggtgct gcatttatat 420
 ctgctggttt aaaattctgt catatttcac ttctagcctt ttagttatgg caaatcatat 480
 tttactttta cttaaagcat ttggttattt ggantatctg gttctannct aaaaaaanta 540
 attctatnaa ttgaantttt ggtactcnn ccatatttga tcc 583

<210> 101
 <211> 592
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(592)
 <223> n = A,T,C or G

<400> 101
 gtggagacgt acaaagagca gccgctcaag acacctggga agaaaaagaa aggcaagccc 60
 gggaaacgca aggagcagga aaagaaaaaa cggcgaactc gctctgcctg gttagactct 120

```

ggagtgactg ggagtgggct agaaggggac cacctgtctg acacctccac aacgtcgctg      180
gagctcgatt cacggaggca ttgaaatttt cagcaganac cttccaagga catattgcag      240
gattctgtaa tagtgaacat atggaaagta ttagaaatat ttattgtctg taaatactgt      300
aaatgcattg gaataaaact gtctcccca ttgctctatg aaactgcaca ttggtcattg      360
tgaatatttt tttttttgcc aaggctaata caattattat tatcacattt accataattt      420
attttgtcca ttgatgtatt ttttttgtaa atgtatcttg gtgctgctga atttctatat      480
tttttgtaca taatgcnttt anatatacct atcaagtttg ttgataaatg acncaatgaa      540
gtgncncnan ttgngggttg aatttaatga atgcctaatt ttattatccc aa              592

```

```

<210> 102
<211> 587
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(587)
<223> n = A,T,C or G

```

```

<400> 102
cgtcctaagc acttagacta catcaggga gaacacagac cacatccctg tcctcatgcg      60
gcttatgttt tctggaagaa agtggagacc nagtccttgg ctttagggct ccccggtgg      120
gggctgtgca ntccggtcag ggcgggaagg gaaatgcacc gctgcatgtg aacttacagc      180
ccaggcggat gcccttccc ttagcactac ctggcctcct gcatccctc gcctcatggt      240
cctcccacct tcaanaaatg aanaacccca tgggccagc cccttgccct ggggaaccaa      300
ggcagccttc caaaactcag gggctgaagc anactattag ggcaggggct gactttgggt      360
gacactgcc attccctctc agggcagctc angtcaccn ggnctcttga acccagcctg      420
ttcctttgaa aaagggcaaa actgaaaagg gcttttccca naaaagaaa aaccagggaa      480
ctttgccagg gcttcnntnt taccaaaacn ncttctcnng gatttttaat tccccattng      540
gcctccactt accnggggcn atgccccaaa attaanaatt tcccatc              587

```

```

<210> 103
<211> 496
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(496)
<223> n = A,T,C or G

```

```

<400> 103
anaggactgg ccctacntgc tctctctcgt cctacctato aatgcccaac atggcagaac      60
ctgcanccct tggncactgc anatggaaac ctctcagtgt cttgacatca ccctaccnt      120
gcggtgggtc tccaccacaa ccactttgac tctgtggtcc ctgnanggtg gnttctcctg      180
actggcagga tggaccttan ccnacatata cctctgttcc ctctgctnag anaaagaatt      240
cccttaacat gatataatcc acccatgcaa ntngctactg gccagctac catttaccat      300
ttgcctacag aatttcattc agtctacact ttggcattct ctctggcgat agagtgtggc      360
tggtgtgacc gcaaaagggt ccttacacac tggccccac cctcaaccgt tgacncatca      420
gangcttgcc tctccttctt gattnncccc catgttggat atcaggggtg tcnagggatt      480
ggaaaagaaa caaaac

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<210> 104
<211> 575

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CCCTT "GAGGGA"

<212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(575)
 <223> n = A,T,C or G

<400> 104
 gcacctgctc tcaatccnnc tctcaccatg atcctccgcc tgcanaaact cctctgccaa 60
 ctatggangt ggtttcnngg gtggctcttg ccaactggga agaagccgtg gtgtctctac 120
 ctgttcaact cngtttggtg ctgggggatc aactnngggc tatggaagcg gctnaactgt 180
 tgttttgggtg gaagggctgg taattggctt tgggaagtng cttatngaag ttggcctngg 240
 gaagttgcta ttgaaagtng ccntggaagt ngntttgggtg ggggggttttg ctggtggcct 300
 ttgttnaatt tgggtgcttt gtnaatggcg gccccctcnc ctgggcaatg aaaaaaatca 360
 ccnatgcngn aaacctcnac nnaacagcct gggcttccct cacctcgaaa aaagttgctc 420
 ccccccaaaa aaaggncaan cccctcaann tggaangttg aaaaaatcct cgaatgggga 480
 nccnnaaaac aaaaancccc cntttcccn gnaanggggg aaataccncc cccccactta 540
 cnaaaaccct tntaaaaaac cccccgggaa aaaaa 575

<210> 105
 <211> 619
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(619)
 <223> n = A,T,C or G

<400> 105
 cactagtagg atagaaacac tgtgtccga gagtaaggag agaagctact attgattaga 60
 gctaaccaca ggttaactgc aagaagaggc gggatacttt cagctttcca tgtaactgta 120
 tgcataaagc caatgtagtc cagtttctaa gatcatgttc caagctaact gaatcccact 180
 tcaatacaca ctcatgaact cctgatggaa caataacagg cccaagcctg tggatgatg 240
 tgcacacttg ctgactcan aaaaaatact actctcataa atgggtggga gtattttggt 300
 gacaacctac tttgcttggc tgagtgaagg aatgatattc atatattcat ttattccatg 360
 gacatttagt tagtgctttt tatataccag gcatgatgct gagtgaact cttgtgtata 420
 tttccaaatt tttgtacagt cgctgcacat atttgaaatc atatattaag acttccaaaa 480
 aatgaagtcc ctggtttttc atggcaactt gatcagtaaa ggattcncct ctggttggtgta 540
 cttaaaacat ctactatatn gttnanatga aattcctttt ccccnctcc cgaaaaaana 600
 aagtgggtggg gaaaaaaa 619

<210> 106
 <211> 506
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(506)
 <223> n = A,T,C or G

<400> 106

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<210> 107
<211> 452
<212> DNA
<213> Homo sapien
```

<400> 107

```
<210> 108
<211> 502
<212> DNA
<213> Homo sapien
```

<400> 108

| | |
|-------|------|
| <210> | 109 |
| <211> | 1308 |
| <212> | DNA |

<213> Homo sapien

<400> 109

| | | | | | | |
|------------|-------------|------------|-------------|------------|-------------|------|
| acccgaggtc | tcgctaaaaat | catcatggat | tcacttggcg | ccgtcagcac | tcgacttggg | 60 |
| tttgatcttt | tcaaagagct | gaagaaaaca | aatgatggca | acatcttctt | ttccccctgtg | 120 |
| ggcatcttga | ctgcaattgg | catggctctc | ctggggaccc | gaggagccac | cgcttcccag | 180 |
| ttggaggagg | tgtttcactc | tgaaaaagag | acgaagagct | caagaataaa | ggctgaagaa | 240 |
| aaagaggtga | ttgagaacac | agaagcagta | catcaacaat | tccaaaagtt | tttgactgaa | 300 |
| ataagcaaac | tcactaatga | ttatgaactg | aacataacca | acaggctgtt | tggagaaaaa | 360 |
| acatacctct | tccttcaaaa | atacttagat | tatgttgaaa | aatattatca | tgcactctctg | 420 |
| gaacctgttg | attttgtaaa | tgcagccgat | gaaagtcgaa | agaagattaa | ttcctggggtt | 480 |
| gaaagcaaaa | caaatgaaaa | aatcaaggac | ttgttcccag | atggctctat | tagtagctct | 540 |
| accaagctgg | tgctggtgaa | catggtttat | tttaaagggc | aatgggacag | ggagttaaag | 600 |
| aaagaaaata | ctaaggaaga | gaaatttttg | atgaataaga | gcacaagtaa | atctgtacag | 660 |
| atgatgacac | agagccattc | ctttagcttc | actttcctgg | aggacttgca | ggccaaaatt | 720 |
| ctagggattc | catataaaaa | caacgacctc | agcatgtttg | tgttcttgcc | caacgacatc | 780 |
| gatggcctgg | agaagataat | agataaaata | agtcctgaga | aattggtaga | gtggactagt | 840 |
| ccagggcata | tggaagaaaag | aaaggtgaat | ctgcacttgc | cccggtttga | ggtggaggac | 900 |
| agttacgatc | tagaggcggt | cctggctgcc | atggggatgg | gcgatgcctt | cagtgagcac | 960 |
| aaagccgact | actcggaat | gtcgtcaggc | tccgggttgt | acgccagaa | gttctgcac | 1020 |
| agttcctttg | tggcagtaac | tgaggaaggc | accgaggctg | cagctgccac | tggcataggc | 1080 |
| tttactgtca | catccgcccc | aggtcatgaa | aatgttcaact | gcaatcatcc | cttctgttc | 1140 |
| ttcatcaggc | acaatgaatc | caacagcatc | ctcttcttcg | gcagattttc | ttctccttaa | 1200 |
| gatgatcggt | gccatggcat | tgctgctttt | agcaaaaaac | aactaccagt | gttactcata | 1260 |
| tgattatgaa | aatcgcccat | tcttttaaat | ggtggctcac | ttgcattt | | 1308 |

<210> 110

<211> 391

<212> PRT

<213> Homo sapien

<400> 110

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asp | Ser | Leu | Gly | Ala | Val | Ser | Thr | Arg | Leu | Gly | Phe | Asp | Leu | Phe |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Lys | Glu | Leu | Lys | Lys | Thr | Asn | Asp | Gly | Asn | Ile | Phe | Phe | Ser | Pro | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Gly | Ile | Leu | Thr | Ala | Ile | Gly | Met | Val | Leu | Leu | Gly | Thr | Arg | Gly | Ala |
| | | | 35 | | | | 40 | | | | | 45 | | | |
| Thr | Ala | Ser | Gln | Leu | Glu | Glu | Val | Phe | His | Ser | Glu | Lys | Glu | Thr | Lys |
| | | | 50 | | | 55 | | | | | 60 | | | | |
| Ser | Ser | Arg | Ile | Lys | Ala | Glu | Glu | Lys | Glu | Val | Ile | Glu | Asn | Thr | Glu |
| 65 | | | | 70 | | | | | 75 | | | | | 80 | |
| Ala | Val | His | Gln | Gln | Phe | Gln | Lys | Phe | Leu | Thr | Glu | Ile | Ser | Lys | Leu |
| | | | 85 | | | | | 90 | | | | | 95 | | |
| Thr | Asn | Asp | Tyr | Glu | Leu | Asn | Ile | Thr | Asn | Arg | Leu | Phe | Gly | Glu | Lys |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Thr | Tyr | Leu | Phe | Leu | Gln | Lys | Tyr | Leu | Asp | Tyr | Val | Glu | Lys | Tyr | Tyr |
| | | | 115 | | | | 120 | | | | | 125 | | | |
| His | Ala | Ser | Leu | Glu | Pro | Val | Asp | Phe | Val | Asn | Ala | Ala | Asp | Glu | Ser |
| | | | 130 | | | 135 | | | | | 140 | | | | |
| Arg | Lys | Lys | Ile | Asn | Ser | Trp | Val | Glu | Ser | Lys | Thr | Asn | Glu | Lys | Ile |
| 145 | | | | 150 | | | | | 155 | | | | | 160 | |
| Lys | Asp | Leu | Phe | Pro | Asp | Gly | Ser | Ile | Ser | Ser | Ser | Thr | Lys | Leu | Val |
| | | | 165 | | | | | 170 | | | | | | 175 | |

110
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 180
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 360
 370
 380
 390
 400

Leu Val Asn Met Val Tyr Phe Lys Gly Gln Trp Asp Arg Glu Phe Lys
 180 185 190
 Lys Glu Asn Thr Lys Glu Glu Lys Phe Trp Met Asn Lys Ser Thr Ser
 195 200 205
 Lys Ser Val Gln Met Met Thr Gln Ser His Ser Phe Ser Phe Thr Phe
 210 215 220
 Leu Glu Asp Leu Gln Ala Lys Ile Leu Gly Ile Pro Tyr Lys Asn Asn
 225 230 235 240
 Asp Leu Ser Met Phe Val Leu Leu Pro Asn Asp Ile Asp Gly Leu Glu
 245 250 255
 Lys Ile Ile Asp Lys Ile Ser Pro Glu Lys Leu Val Glu Trp Thr Ser
 260 265 270
 Pro Gly His Met Glu Glu Arg Lys Val Asn Leu His Leu Pro Arg Phe
 275 280 285
 Glu Val Glu Asp Ser Tyr Asp Leu Glu Ala Val Leu Ala Ala Met Gly
 290 295 300
 Met Gly Asp Ala Phe Ser Glu His Lys Ala Asp Tyr Ser Gly Met Ser
 305 310 315 320
 Ser Gly Ser Gly Leu Tyr Ala Gln Lys Phe Leu His Ser Ser Phe Val
 325 330 335
 Ala Val Thr Glu Glu Gly Thr Glu Ala Ala Ala Ala Thr Gly Ile Gly
 340 345 350
 Phe Thr Val Thr Ser Ala Pro Gly His Glu Asn Val His Cys Asn His
 355 360 365
 Pro Phe Leu Phe Phe Ile Arg His Asn Glu Ser Asn Ser Ile Leu Phe
 370 375 380
 Phe Gly Arg Phe Ser Ser Pro
 385 390

<210> 111

<211> 1419

<212> DNA

<213> Homo sapien

<400> 111

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| ggagaactat | aaattaagga | tcccagctac | ttaattgact | tatgcttcct | agttcgttgc | 60 |
| ccagccacca | ccgtctctcc | aaaaaccgga | ggctctcgcta | aaatcatcat | ggattcactt | 120 |
| ggcgccgtca | gcactcgact | tgggtttgat | cttttcaaag | agctgaagaa | aacaaatgat | 180 |
| ggcaacatct | tcttttcccc | tgtgggcac | ttgactgcaa | ttggcatggt | cctcctgggg | 240 |
| acccgaggag | ccaccgcttc | ccagttggag | gaggtgtttc | actctgaaaa | agagacgaag | 300 |
| agctcaagaa | taaaggctga | agaaaaagag | gtggttaagaa | taaaggctga | aggaaaagag | 360 |
| attgagaaca | cagaagcagt | acatcaacaa | ttccaaaagt | ttttgactga | aataagcaaa | 420 |
| ctcactaatg | attatgaact | gaacataacc | aacaggctgt | ttggagaaaa | aacatacctc | 480 |
| ttccttcaaa | aataacttaga | ttatgttgaa | aaatattatc | atgcatctct | ggaacctggt | 540 |
| gattttgtaa | atgcagccga | tgaaagtcga | aagaagatta | attcctgggt | tgaaagcaaa | 600 |
| acaaatgaaa | aatcaagga | cttgttccca | gatggctcta | ttagtagctc | taccaagctg | 660 |
| gtgctggtga | acatggttta | ttttaaagg | caatgggaca | gggagtttaa | gaaagaaaat | 720 |
| actaaggaag | agaaattttg | gatgaataag | agcacaagta | aatctgtaca | gatgatgaca | 780 |
| cagagccatt | ccttttagctt | cactttcctg | gaggacttgc | aggccaaaat | tctagggtat | 840 |
| ccatataaaa | acaacgacct | aagcatgttt | gtgcttctgc | ccaacgacat | cgatggcctg | 900 |
| gagaagataa | tagataaaat | aagtcctgag | aaattggtag | agtggactag | tccagggcac | 960 |
| atggaagaaa | gaaaggtgaa | tctgcacttg | ccccggtttg | aggtggagga | cagttacgat | 1020 |
| ctagaggcgg | tcctggctgc | catggggatg | ggcgatgcct | tcagttagca | caaagccgac | 1080 |
| tactcgggaa | tgctgctcag | ctccgggttg | tacgcccaga | agttcctgca | cagttccttt | 1140 |

```

gtggcagtaa ctgaggaagg caccgaggct gcagctgcca ctggcatagg ctttactgtc 1200
acatccgccc caggtcacga aaatgttcac tgcaatcacc ccttcctggt cttcatcagg 1260
cacaatgaat ccaacagcat cctcttcttc ggcagatttt cttctcctta agatgatcgt 1320
tgccatggca ttgctgcttt tagcaaaaaa caactaccag tgttactcat atgattatga 1380
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<210> 112
<211> 400
<212> PRT
<213> Homo sapien

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```

<400> 112

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Met Asp Ser Leu Gly Ala Val Ser Thr Arg Leu Gly Phe Asp Leu Phe
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Lys Glu Leu Lys Thr Asn Asp Gly Asn Ile Phe Phe Ser Pro Val
20     25     30
Gly Ile Leu Thr Ala Ile Gly Met Val Leu Leu Gly Thr Arg Gly Ala
35     40     45
Thr Ala Ser Gln Leu Glu Glu Val Phe His Ser Glu Lys Glu Thr Lys
50     55     60
Ser Ser Arg Ile Lys Ala Glu Glu Lys Glu Val Val Arg Ile Lys Ala
65     70     75     80
Glu Gly Lys Glu Ile Glu Asn Thr Glu Ala Val His Gln Gln Phe Gln
85     90     95
Lys Phe Leu Thr Glu Ile Ser Lys Leu Thr Asn Asp Tyr Glu Leu Asn
100    105    110
Ile Thr Asn Arg Leu Phe Gly Glu Lys Thr Tyr Leu Phe Leu Gln Lys
115    120    125
Tyr Leu Asp Tyr Val Glu Lys Tyr Tyr His Ala Ser Leu Glu Pro Val
130    135    140
Asp Phe Val Asn Ala Ala Asp Glu Ser Arg Lys Lys Ile Asn Ser Trp
145    150    155    160
Val Glu Ser Lys Thr Asn Glu Lys Ile Lys Asp Leu Phe Pro Asp Gly
165    170    175
Ser Ile Ser Ser Ser Thr Lys Leu Val Leu Val Asn Met Val Tyr Phe
180    185    190
Lys Gly Gln Trp Asp Arg Glu Phe Lys Lys Glu Asn Thr Lys Glu Glu
195    200    205
Lys Phe Trp Met Asn Lys Ser Thr Ser Lys Ser Val Gln Met Met Thr
210    215    220
Gln Ser His Ser Phe Ser Phe Thr Phe Leu Glu Asp Leu Gln Ala Lys
225    230    235    240
Ile Leu Gly Ile Pro Tyr Lys Asn Asn Asp Leu Ser Met Phe Val Leu
245    250    255
Leu Pro Asn Asp Ile Asp Gly Leu Glu Lys Ile Ile Asp Lys Ile Ser
260    265    270
Pro Glu Lys Leu Val Glu Trp Thr Ser Pro Gly His Met Glu Glu Arg
275    280    285
Lys Val Asn Leu His Leu Pro Arg Phe Glu Val Glu Asp Ser Tyr Asp
290    295    300
Leu Glu Ala Val Leu Ala Ala Met Gly Met Gly Asp Ala Phe Ser Glu
305    310    315    320
His Lys Ala Asp Tyr Ser Gly Met Ser Ser Gly Ser Gly Leu Tyr Ala
325    330    335

```

Gln Lys Phe Leu His Ser Ser Phe Val Ala Val Thr Glu Glu Gly Thr
 340 345 350
 Glu Ala Ala Ala Ala Thr Gly Ile Gly Phe Thr Val Thr Ser Ala Pro
 355 360 365
 Gly His Glu Asn Val His Cys Asn His Pro Phe Leu Phe Phe Ile Arg
 370 375 380
 His Asn Glu Ser Asn Ser Ile Leu Phe Phe Gly Arg Phe Ser Ser Pro
 385 390 395 400

<210> 113
 <211> 957
 <212> DNA
 <213> Homo sapien

<400> 113
 ctcgaccttc tctgcacagc ggatgaaccc tgagcagctg aagaccagaa aagccactat 60
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 gaaacatgag ttcttaccag cagaagcaga cctttacccc accacctcag cttcaacagc 180
 agcaggtgaa acaaccacgc cagcctccac ctcaggaaat atttggtccc acaaccaagg 240
 agccatgcca ctcaaagggt ccacaacctg gaaacacaaa gattccagag ccaggctgta 300
 ccaaggtccc tgagccaggc tgtaccaagg tccctgagcc aggttggtacc aaggtccctg 360
 agccaggatg taccaaggtc cctgagccag gttgtacca ggtccctgag ccaggctaca 420
 ccaaggtccc tgagccaggc agcatcaagg tccctgacca aggttctatc aagtttcctg 480
 agccagggtgc catcaaagtt cctgagcaag gatacaccaa agttcctgtg ccaggctaca 540
 caaaggtacc agagccatgt ccttcaacgg tcaactccagg cccagctcag cagaagacca 600
 agcagaagta atttggtgca cagacaagcc cttgagaagc caaccaccag atgctggaca 660
 cctcttctcc atctgtttct gtgtcttaat tgtctgtaga ccttgtaatc agtacattct 720
 caccccaagc catagtctct ctcttatttg tatectaaaa atacggtact ataaagcttt 780
 tggtcacaca cactctgaag aatcctgtaa gccctgaat taagcagaaa gtcttcatgg 840
 cttttctggt cttcggtctgc tcagggttca tctgaagatt cgaatgaaaa gaaatgcatg 900
 tttcctgctc tgccctcatt aaattgcttt taattccaaa aaaaaaaaaa aaaaaaa 957

<210> 114
 <211> 161
 <212> PRT
 <213> Homo sapien

<400> 114
 Met Ser Ser Tyr Gln Gln Lys Gln Thr Phe Thr Pro Pro Pro Gln Leu
 1 5 10 15
 Gln Gln Gln Gln Val Lys Gln Pro Ser Gln Pro Pro Pro Gln Glu Ile
 20 25 30
 Phe Val Pro Thr Thr Lys Glu Pro Cys His Ser Lys Val Pro Gln Pro
 35 40 45
 Gly Asn Thr Lys Ile Pro Glu Pro Gly Cys Thr Lys Val Pro Glu Pro
 50 55 60
 Gly Cys Thr Lys Val Pro Glu Pro Gly Cys Thr Lys Val Pro Glu Pro
 65 70 75 80
 Gly Cys Thr Lys Val Pro Glu Pro Gly Cys Thr Lys Val Pro Glu Pro
 85 90 95
 Gly Tyr Thr Lys Val Pro Glu Pro Gly Ser Ile Lys Val Pro Asp Gln
 100 105 110
 Gly Phe Ile Lys Phe Pro Glu Pro Gly Ala Ile Lys Val Pro Glu Gln
 115 120 125

Gly Tyr Thr Lys Val Pro Val Pro Gly Tyr Thr Lys Val Pro Glu Pro
 130 135 140
 Cys Pro Ser Thr Val Thr Pro Gly Pro Ala Gln Gln Lys Thr Lys Gln
 145 150 155 160
 Lys

<210> 115
 <211> 506
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(506)
 <223> n = A,T,C or G

<400> 115
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 angtanagat gttctggata ccattanatn tgccccngt gtcagaggct catattgtgt 180
 tatgtaaagtg gtatntcatt cgctactatn antcaattng aaatanggtc tttgggttat 240
 gaatantnng cagcncanct nanangctgt ctgtngtatt cattgtgggtc atagcacctc 300
 acancattgt aacctcnatc nagtgagaca nactagnaan ttcctagtga tggctcanga 360
 ttccaaatgg nctcatntcn aatgtttaaa agttanttaa gtgtaagaaa tacagactgg 420
 atgttccacc aactagtacc tgtaatgaacn ggcctgtccc aacacatctc ccttttccat 480
 gactgtggta nccgcgcatcg gaaaaa 506

<210> 116
 <211> 3079
 <212> DNA
 <213> Homo sapien

<400> 116
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 aaagagggtca aagtgggttta tagggggcgc tgagggtctc ccacattctc tggcctaaac 180
 ctgagcaggca gatctgcccga gtgggctctg ggatagctgt gccttcccta acaaaaaaat 240
 tgtgcacaaa aggatgaaac tctattttcc ctctagcaca taaccaagaa tataaggcta 300
 cagattgcct ttcccagagg gaaaaccctg cagcaacctg ctgcctggaa aagtgtgaga 360
 gcagatcact ggggaatcgt ttgcccccg ctgatggaca gcttcccaa gctccaaggg 420
 cagggtgctca gcatgtaccg tactgggatg gttgtcaata ctctgggtcc tgtaagagtc 480
 ccaggacact gccatgccaa tgccccctca gttcctggca tccttttttg gctgctcaca 540
 gccccagcct ctatggtgaa gacatacttg ctgacagcgt caccaacttg ttgccaagag 600
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 tgcacccac accactgtgc aggtgtgacc ggtgagctca cagctgcccc ccaggcatgc 720
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 gtgggtggcag cttcaggaaac cggtttggtg ctggtgctgg aggcggctat ggctttggag 1200

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|------------|------|
| gtggtgccgg | tagtggattt | ggtttcggcg | gtggagctgg | tggtggcttt | gggctcggtg | 1260 |
| gcggagctgg | ctttggaggt | ggcttcgggtg | gccctggctt | tcctgtctgc | cctcctggag | 1320 |
| gtatccaaga | ggtcactgtc | aaccagagtc | tcctgactcc | cctcaacctg | caaatcgacc | 1380 |
| ccagcatcca | gagggtagag | accgaggagc | gcgagcagat | caagaccctc | aacaataagt | 1440 |
| ttgcctcctt | catcgacaag | gtgcggttcc | tggagcagca | gaacaagggt | ctggaaacaa | 1500 |
| agtggaccct | gctgcaggag | cagggcacca | agactgtgag | gcagaacctg | gagccgttgt | 1560 |
| tcgagcagta | catcaacaac | ctcaggaggc | agctggacag | catcgtgggg | gaacggggcc | 1620 |
| gcctggactc | agagctgaga | aacatgcagg | acctggtgga | agacttcaag | aacaagtatg | 1680 |
| aggatgaaat | caacaagcgt | accactgctg | agaatgagtt | tgtgatgctg | aagaaggatg | 1740 |
| tagatgctgc | ctacatgaac | aagggtggagc | tggaggccaa | ggttgatgca | ctgatggatg | 1800 |
| agattaactt | catgaagatg | ttctttgatg | cggagctgtc | ccagatgcag | acgcatgtct | 1860 |
| ctgacacctc | agtggctctc | tccatggaca | acaaccgcaa | cctggacctg | gatagcatca | 1920 |
| tcgctgaggt | caaggcccgag | tatgaggaga | ttgccaaaccg | cagccggaca | gaagccgagt | 1980 |
| cctggatatca | gaccaagtat | gaggagctgc | agcagacagc | tggccggcat | ggcgtgacc | 2040 |
| tccgcaacac | caagcatgag | atctctgaga | tgaaccggat | gatccagagg | ctgagagccg | 2100 |
| agattgacaa | tgtcaagaaa | cagtgcgcca | atctgcagaa | cgccattgctg | gatgccgagc | 2160 |
| agcgtgggga | gctggccctc | aaggatgccca | ggaacaagct | ggccgagctg | gaggaggccc | 2220 |
| tgcagaaggc | caagcaggac | atggcccggc | tgctgctgta | gtaccaggag | ctcatgaaca | 2280 |
| ccaagctggc | cctggacgtg | gagatcgcca | cttaccgcaa | gctgctggag | ggcgaggaat | 2340 |
| gcagactcag | tggagaagga | gttggaccag | tcaacatctc | tgttgtcaca | agcagtgttt | 2400 |
| cctctggata | tggcagtggc | agtggctatg | gcggtggcct | cgggtgaggt | cttggcggcg | 2460 |
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<211> 6921

<212> DNA

<213> Homo sapien

<400> 117

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| taaattggaag | gtcatttagtc | ctactgggaa | tgaggctatg | gtcccatctg | tgtgcttcac | 180 |
| cgttcctcca | ccaaacaaag | aagcgggtga | ccttgccaac | agaattgagc | aacagtatca | 240 |
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| ttatctcatc | aatgaaattg | atagaattcg | agctagcaat | gtggcttcaa | taaagacaat | 360 |
| gctacctggg | gaacatcagc | aagttctaa | taatctacaa | tctcgttttg | aagattttct | 420 |
| ggaagatagc | caggaatccc | aagtcttttc | aggctcagat | ataacacaac | tggaaaagga | 480 |
| ggttaatgta | tgtgaagcagt | attatcaaga | acttctttaa | tctgcagaaa | gagaggagca | 540 |
| agaggaatca | gtttataatc | tctacatctc | tgaagttcga | aacattagac | ttcggttaga | 600 |
| gaactgtgaa | gatcggctga | ttagacagat | tcgaactccc | ctggaaagag | atgatttgca | 660 |
| tgaaagtgtg | ttcagaatca | cagaacagga | gaaactaaag | aaagagctgg | aacgacttaa | 720 |
| agatgatttg | ggaacaatca | caaataagtg | tgaggagttt | ttcagtcaag | cagcagcctc | 780 |
| ttcatcagtc | cctaccctac | gatcagagct | taatgtggtc | cttcagaaca | tgaaccaagt | 840 |
| ctattctatg | tcttccactt | acatagataa | gttgaaaact | gttaacttgg | tgttaaaaaa | 900 |

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| cactcaagct | gcagaagccc | tcgtaaaact | ctatgaaact | aaactgtgtg | aagaagaagc | 960 |
| agttatagct | gacaagaata | atattgagaa | tctaataagt | actttaaaagc | aatggagatc | 1020 |
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| gcctgaaaat | agtaaaaccc | tagccacaca | gttgaatcaa | cagaagatgc | tggtgtccga | 1380 |
| aatagaaatg | aaacagagca | aaatggacga | gtgtcaaaaa | tatgcagaac | agtactcagc | 1440 |
| tacagtgaag | gactatgaat | tacaaacaat | gacctaccgg | gccatggtag | attcacaaca | 1500 |
| aaaatctcca | gtgaaacgcc | gaagaatgca | gagttcagca | gatctcatta | ttcaagagtt | 1560 |
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| gtcccagagta | gaggaagaac | ttccgaaggt | cagggaggct | gcagaaaatg | aattgagaaa | 1860 |
| gcagcagaga | aatgtagaag | atatctctct | gcagaagata | agggctgaaa | gtgaagccaa | 1920 |
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| ggagcggggt | aggcagctca | ccatagaggc | cgaggctaaa | agagctgccg | tggaagagaa | 2040 |
| cctcctgaat | tttcgcaatc | agttggagga | aaacaccttt | accagacgaa | cactggaaga | 2100 |
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<211> 946

<212> DNA

<213> Homo sapien

<400> 118

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| gagcattata | agaaaatgac | ctctgtcctc | tttcattgca | gaaaattgcc | aggggcttat | 660 |
| ttcagaacaa | cttcacttta | ctttccactg | gctctcaaac | tctctaactt | ataagtgttg | 720 |
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| gcctgtatct | ctgtgatgat | ttctgtgctc | ttcactgttt | gcaattgcta | aataaagcag | 840 |
| atttataata | catatattct | tttactttgc | cttgctttgg | ggccaaagtt | ttgggcttaa | 900 |
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<210> 119

<211> 8948

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<213> Homo sapien

<400> 119

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| acaccaacac | ccagctccga | cgcagctcct | ctgcgccctt | gccgccctcc | gagccacagc | 120 |
| tttctctccg | ctcctgcccc | cggcccgctg | ccgtctccgc | gctcgcagcg | gcctcgggag | 180 |
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| gcgctgagcc | gctctcccga | ttgcccgcgg | acatgagctg | caacggaggc | ttccacccgc | 360 |
| ggatcaaac | tctggggccg | atgatccgcg | ccgagctctg | cccggacctg | cgctacgagg | 420 |
| tgaccagcgg | cggcgggggc | accagcagga | tgtactattc | tcggcgcggc | gtgatcaccg | 480 |
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| gttttgccca | ggccaatgac | caaattgaaa | tcctcgacag | cttgatcaga | gagatgcggc | 720 |
| agatgggcca | gccctgtgat | gcttaccaga | aaaggcttct | tcagctccaa | gagcaaatgc | 780 |
| gagcccttta | taaagccatc | agtgtccctc | gagtcgcgag | ggccagctcc | aagggtggtg | 840 |
| gaggctacac | ttgtcagagt | ggctctggct | gggatgagtt | caccaaacad | gtcaccagt | 900 |
| aatgtttggg | gtggatgagg | cagcaaagg | cggagatgga | catggtggcc | tggggtgtgg | 960 |
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| agttggagga | ggagtatgaa | aacctgctga | aagcgtcctt | tgagaggatg | gatcacctgc | 1140 |
| gacagctgca | gaacatcatt | caggccacgt | ccaggagat | catgtggatc | aatgactgcg | 1200 |
| aggaggagga | gctgctgtac | gactggagcg | acaagaacac | caacatcgct | cagaaacagg | 1260 |
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| gcagcaagtg | gtacgtgacg | ggcccgagg | gcgttgacat | gcttgttccc | tctgtggggc | 1860 |

119 8948 DNA Homo sapien
 119
 8948
 DNA
 Homo sapien

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|-------------|-------------|------------|-------------|-------------|------------|------|
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| ggcactactg | catgattgac | atagagaaga | tcagggccat | gacaatcgcc | aagctgaaaa | 2040 |
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| gggtgattct | gcaagaggct | gcagatgttc | atgctcggta | cattgaacta | cttacaagat | 3360 |
| ctggagacta | ttacaggttc | ttaagtgaga | tgtggaagag | tttgggaagat | ctgaagctga | 3420 |
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| ttcaggagca | agaactgaca | cgcttgagga | tcgactatga | aagggtttcc | caggagagga | 4980 |
| ctgtgaagga | ccaggatatc | acgcggttcc | agaactctct | gaaagagctg | cagctgcaga | 5040 |
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| | | | | | | |
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| cccaggaaga | gctgaggagg | ctctcttctg | aggtcgaggc | cctgaggcgg | cagttactcc | 5340 |
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| aacagcgct | ggagtgtgag | aaacagcaaa | ttcagaatga | cctgaatcag | tggaagactc | 5940 |
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| cagaacgctc | ccgatatcag | agggagattg | ataaactcag | acagcgccca | tatgggtccc | 6180 |
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| cagacaccct | ggaagaatcg | agccccattg | cagccatctt | tgacacagaa | aacctggaga | 8220 |
| aaatctccat | tacagaaggt | atagagcggg | gcatcgttga | cagcatcacg | ggtcagaggc | 8280 |
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| | | | | | | |
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| cacttcagga | cgcagtctcc | caggggtgtga | ttgaccaaga | catggccacc | agcgtgaagc | 8400 |
| ctgctcagaa | agccttcata | ggcttcgagg | gtgtgaagg | aaagaagaag | atgtcagcag | 8460 |
| cagaggcagt | gaaagaaaaa | tggctcccgt | atgaggctgg | ccagcgcttc | ctggagttcc | 8520 |
| agtacctcac | gggaggtctt | gttgaccggg | aagtgcattg | gaggataagc | accgaagaag | 8580 |
| ccatccggaa | gggggttcata | gatggccgcg | ccgcacagag | gctgcaagac | accagcagct | 8640 |
| atgccaaaat | cctgacctgc | cccaaaacca | aattaaaaat | atcctataag | gatgccataa | 8700 |
| atcgctccat | ggtagaagat | atcactgggc | tgcgccttct | ggaagccgcc | tccgtgtcgt | 8760 |
| ccaagggctt | accagccct | tacaacatgt | cttcggctcc | ggggtccgc | tccggctccc | 8820 |
| gctcgggac | tcgctccgga | tctcgctccg | ggccccgcag | tgggtcccg | agaggaagct | 8880 |
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<211> 587

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(587)

<223> n = A,T,C or G

<400> 120

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| gcttatgttt | tctggaagaa | agtggagacc | nagtccttgg | ctttagggct | ccccggctgg | 120 |
| gggctgtgca | ntccggtcag | ggcggaagg | gaaatgcacc | gctgcatgtg | aacttacagc | 180 |
| ccaggcggat | gccccttccc | ttagcactac | ctggcctcct | gcacccctc | gcctcatgtt | 240 |
| cctcccacct | tcaaanaatg | aanaacccca | tgggccccagc | cccttgccct | ggggaaccaa | 300 |
| ggcagccttc | caaaactcag | gggctgaagc | anactattag | ggcaggggct | gactttgggt | 360 |
| gacactgccc | attccctctc | agggcagctc | angtcacccn | ggnetcttga | accagcctg | 420 |
| ttcctttgaa | aaagggcaaa | actgaaaagg | gcttttcccta | naaaaagaaa | aaccagggaa | 480 |
| ctttgccagg | gcttcnntnt | tacaaaaacn | ncttctcnng | gatttttaat | tccccattng | 540 |
| gcctccactt | accnggggcn | atgccccaaa | attaanaatt | tcccatc | | 587 |

<210> 121

<211> 619

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(619)

<223> n = A,T,C or G

<400> 121

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| gcctaaccac | ggttaactgc | aagaagaggc | gggatacttt | cagctttcca | tgtaactgta | 120 |
| tgcataaagc | caatgtagtc | cagtttctaa | gatcatgttc | caagctaact | gaatcccact | 180 |
| tcaatacaca | ctcatgaact | cctgatggaa | caataacagg | cccaagcctg | tggtatgatg | 240 |
| tgcacacttg | ctagactcan | aaaaataact | actctcataa | atgggtggga | gtattttggg | 300 |
| gacaacctac | tttgcttggc | tgagtgaagg | aatgatattc | atatattcat | ttattccatg | 360 |
| gacatttagt | tagtgctttt | tatataccag | gcacatgctg | gagtgacact | cttgtgtata | 420 |
| tttccaaatt | ttgtacagt | cgctgcacat | atttgaaatc | atatattaag | acttccaaaa | 480 |
| aatgaagtcc | ctggtttttc | atggcaactt | gatcagtaaa | ggattcncct | ctgttttggt | 540 |

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aagtgggtggg gaaaaaaaaa 619

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<211> 1475
<212> DNA
<213> Homo sapien

<400> 122

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| agcgcgccga | cctcgccacc | atgagagccc | tgctggcgcg | cctgcttctc | tgctgctgg | 120 |
| tcgtgagcga | ctccaaaggc | agcaatgaac | ttcatcaagt | tccatcgaac | tgtgactgtc | 180 |
| taaattggagg | aacatgtgtg | tccaacaagt | acttctccaa | cattcactgg | tgcaactgcc | 240 |
| caaagaaatt | cggagggcag | cactgtgaaa | tagataagtc | aaaaacctgc | tatgagggga | 300 |
| atggtcactt | ttaccgagga | aaggccagca | ctgacacccat | gggcccggccc | tgccctgccct | 360 |
| ggaactctgc | cactgtcctt | cagcaaacgt | accatgccc | cagatctgat | gctcttcagc | 420 |
| tgggcctggg | gaaacataat | tactgcagga | acccagacaa | ccggaggcga | ccctgggtgct | 480 |
| atgtgcaggt | gggcctaaag | ccgcttgctc | aagagtgc | ggtgcatgac | tgcgagatg | 540 |
| gaaaaaagcc | ctcctctcct | ccagaagaat | taaaatttca | gtgtggccaa | aagactctga | 600 |
| ggccccgctt | taagattatt | gggggagaa | tcaccacccat | cgagaaccag | ccctgggttg | 660 |
| cggccatcta | caggaggcac | cgggggggct | ctgtcaccta | cgtgtgtgga | ggcagcctca | 720 |
| tcagcccttg | ctgggtgatc | agcgccacac | actgcttcat | tgattacca | aagaaggagg | 780 |
| actacatcgt | ctacctgggt | cgctcaaggc | ttaactccaa | cacgcaaggg | gagatgaagt | 840 |
| ttgaggtgga | aaacctcatc | ctacacaagg | actacagcgc | tgacacgctt | gtcaccaca | 900 |
| acgacattgc | cttgctgaag | atccgttcca | aggagggcag | gtgtgcgcag | ccatcccga | 960 |
| ctatacagac | catctgcctg | ccctcgatgt | ataacgatcc | ccagtttggc | acaagctgtg | 1020 |
| agatcactgg | ctttggaaaa | gagaattcta | ccgactatct | ctatccggag | cagctgaaga | 1080 |
| tgactgttgt | gaagctgatt | ttccaccggg | agtgtcagca | gccccactac | tacggctctg | 1140 |
| aagtcaccac | caaaatgctg | tgtgctgctg | acccacagtg | gaaaacagat | tcctgccagg | 1200 |
| gagactcagg | gggacccctc | gtctgttccc | tccaaggccg | catgactttg | actggaattg | 1260 |
| tgagctgggg | cgtgggatgt | gcctgaagg | acaagccagg | cgtctacacg | agagtctcac | 1320 |
| acttcttacc | ctggatccgc | agtcacacca | aggaagagaa | tgccctggcc | ctctgaggg | 1380 |
| ccccaggagg | gaaacgggca | ccaccgctt | tcttgctggt | tgtcattttt | gcagtagagt | 1440 |
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<211> 2294
<212> DNA
<213> Homo sapien

<400> 123

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| gccaccatga | gagccctgct | ggcgcgccctg | cttctctgcg | tcctggctcg | gagcgactcc | 120 |
| aaaggcagca | atgaacttca | tcaagttcca | tcgaactgtg | actgtctaaa | tgagggaaca | 180 |
| tgtgtgtcca | acaagtactt | ctccaacatt | cactggtgca | actgcccata | gaaattcgga | 240 |
| gggcagcact | gtgaaataga | taagtcaaaa | acctgctatg | aggggaatgg | tactttttac | 300 |
| cgaggaaagg | ccagcactga | caccatgggc | cggccctgcc | tgccctggaa | ctctgccact | 360 |
| gtccttcagc | aaacgtacca | tgccacacaga | tctgatgctc | ttcagctggg | cctggggaaa | 420 |
| cataattact | gcaggaaacc | agacaaccgg | aggcgaccct | ggtgctatgt | gcaggtgggc | 480 |
| ctaaagccgc | ttgtccaaga | gtgcatgggtg | catgactgcg | cagatggaaa | aaagccctcc | 540 |
| tctcctccag | aagaattaaa | atttcagtgt | ggccaaaaga | ctctgaggcc | ccgctttaag | 600 |
| attattgggg | gagaattcac | caccatcgag | aaccagccct | ggtttgccgc | catctacagg | 660 |
| aggcaccggg | ggggctctgt | cacctacgtg | tgtggaggca | gcctcatcag | cccttgctgg | 720 |
| gtgatcagcg | ccacacactg | cttcattgat | tacccaaaga | aggaggacta | catcgtctac | 780 |

| | | | | | | |
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| ctgggtcgct | caaggcttaa | ctccaacacg | caaggggaga | tgaagtttga | ggtggaaaac | 840 |
| ctaatectac | acaaggacta | cagcgctgac | acgcttgctc | accacaacga | cattgccttg | 900 |
| ctgaagatcc | gttccaagga | gggcaggtgt | gcgcagccat | cccggactat | acagaccatc | 960 |
| tgctgccc | cgatgtataa | cgatccccag | tttggcacia | gctgtgagat | cactggcttt | 1020 |
| ggaaaagaga | attctaccga | ctatctctat | ccggagcagc | tgaaaatgac | tggtgtgaag | 1080 |
| ctgatttccc | accgggagtg | tcagcagccc | cactactacg | gctctgaagt | caccacaaaa | 1140 |
| atgctgtgtg | ctgctgaccc | acagtggaaa | acagattcct | gccagggaga | ctcaggggga | 1200 |
| cccctcgtct | gttcccctcca | aggccgcatg | actttgactg | gaattgtgag | ctggggccgt | 1260 |
| ggatgtgccc | tgaaggacaa | gccaggcgctc | tacacgagag | tctcacactt | cttaccctgg | 1320 |
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| taagaagagc | tggaatatata | ggctctgcac | agatggattt | gcctgtgcca | ccaccagggc | 1500 |
| gaacgacaat | agctttaccc | tcaggcatag | gcctgggtgc | tggtgccc | gacccctctg | 1560 |
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| agcggtttgg | ggagcagaga | cactaacgac | ttcagggcag | ggctctgata | ttccatgaat | 1860 |
| gtatcaggaa | atatatatgt | gtgtgtatgt | ttgcacactt | gtgtgtgggc | tgtgtgtgta | 1920 |
| agtgtgagta | agagctgggt | tctgattgtt | aagtctaaat | atttccttaa | actgtgtgga | 1980 |
| ctgtgatgcc | acacagagtg | gtctttctgg | agaggttata | ggtcactcct | ggggcctctt | 2040 |
| gggtccccc | cgtgacagtg | cctgggaatg | tattattctg | cagcatgacc | tgtgaccagc | 2100 |
| actgtctcag | tttcactttc | acatagatgt | ccctttcttg | gccagttatc | ccttcctttt | 2160 |
| agcctagttc | atccaatcct | cactgggtgg | ggtagggacc | actcctgtac | actgaatatt | 2220 |
| tatatttcac | tatttttatt | tatatttttg | taatttttaa | taaaagtgat | caataaaatg | 2280 |
| tgatttttct | gatg | | | | | 2294 |

<210> 124

<211> 956

<212> DNA

<213> Homo sapien

<400> 124

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gatgagttcc | gcaccaagtt | tgagacagac | caggccctgc | gcctgagtgt | ggaggccgac | 60 |
| atcaatggcc | tgcgcagggt | gctggatgag | ctgaccctgg | ccagagccga | cctggagatg | 120 |
| cagattgaga | acctcaagga | ggagctggcc | tacctgaaga | agaaccacga | ggaggagatg | 180 |
| aacgccctgc | gaggccaggt | gggtggtgag | atcaatgtgg | agatggacgc | tgccccaggc | 240 |
| gtggacctga | gccgcaccc | caacgagatg | cgtgaccagt | atgagaagat | ggcagagaag | 300 |
| aaccgcaagg | atgccgagga | ttggttcttc | agcaagacag | aggaactgaa | ccgcgaggtg | 360 |
| gccaccaaca | gtgagctgg | gcagagtggc | aagagtgaga | tctcggagct | ccggcgcacc | 420 |
| atgcaggcct | tggagataga | gctgcagtc | cagctcagca | tgaaagcatc | cctggagggc | 480 |
| aacctggcgg | agacagagaa | ccgctactgc | gtgcagctgt | cccagatcca | ggggctgatt | 540 |
| ggcagcgtgg | aggagcagct | ggcccagctt | cgctgcgaga | tggagcagca | gaaccaggaa | 600 |
| tacaaaatcc | tgtctgatgt | gaagacgcgg | ctggagcagg | agattgccac | ctaccgccgc | 660 |
| ctgctggagg | gagaggatgc | ccacctgact | cagtacaaga | agaaccgggt | gaccacccgt | 720 |
| caggtgcgta | ccattgtgga | agaggtccag | gatggcaagg | tcattctctc | ccgcgagcag | 780 |
| gtccaccaga | ccaccgcgtg | aggactcagc | taccccgcc | ggccaccag | gaggcagggg | 840 |
| cgcagccgcc | ccatctgccc | cacagtctcc | ggcctctcca | gcctcagccc | cctgcttcag | 900 |
| tcccttcccc | atgcttcctt | gcctgatgac | aataaaagct | tggtgactca | gctatg | 956 |

<210> 125

<211> 486

<212> DNA

<213> Homo sapien

```
<220>
<221> misc_feature
<222> (1)...(486)
<223> n = A,T,C or G
```

| | | | | | | | |
|-------------|------------|-------------|-------------|------------|------------|--|-----|
| <400> | 125 | | | | | | |
| aaattatata | tagtgnttca | gctcccattg | tgggtgttcat | agtcttctag | gaacagataa | | 60 |
| acttaagtat | tcaattcact | cttggcattt | tttctttaat | ataggctttt | tagcctattt | | 120 |
| ttggaaaact | gcttttcttc | tgagaacctt | attctgaatg | tcatcaactt | taccaaacct | | 180 |
| tctaagtcca | gagctaactt | agtactgttt | aagttactat | tgactgaatt | ttcttcattt | | 240 |
| tctgttttagc | cagtgttacc | aaggtaagct | ggggaatgaa | gtataccaac | ttctttcaga | | 300 |
| gcatttttagg | acattatggc | agcttttagaa | ggctgtcttg | tttctagcca | agggagagcc | | 360 |
| agcgcagggt | ttggatacta | gagaaagtca | tttgcttgta | ctattgccat | tttagaaagc | | 420 |
| tctgatgtga | attcaaattt | tacctctggt | acttaaagcc | aacaatttta | aggcagtagt | | 480 |
| tttact | | | | | | | 486 |

```
<210> 126
<211> 3552
<212> DNA
<213> Homo sapien
```

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|------------|------|
| <400> 126 | | | | | | |
| cggcaggcag | gtctcgtctc | ggcaccctcc | cggcgcccgc | gttctcctgg | cctgcccgg | 60 |
| catcccgatg | gccgcgcgtg | ggccccggcg | ctccgtgcgc | ggagccgtct | gcctgcatct | 120 |
| gctgctgacc | ctcgtgatct | tcagtcgtgc | tggtgaagcc | tgcaaaaagg | tgatacttaa | 180 |
| tgtaccttct | aaactagagg | cagacaaaat | aattggcaga | gttaatttgg | aagagtgttt | 240 |
| caggctctgca | gacctcatcc | ggtcaagtga | tcctgatttc | agagtcttaa | atgatgggtc | 300 |
| agtgtacaca | gccagggctg | ttgcgctgtc | tgataagaaa | agatcattta | ccatatggct | 360 |
| ttctgacaaa | aggaaacaga | cacagaaaaga | ggttactgtg | ctgctagaac | atcagaagaa | 420 |
| ggtatcgaag | acaagacaca | ctagagaaac | tgtttctcagg | cgtgcccaaga | ggagatgggc | 480 |
| acctattcct | tgctctatgc | aagagaattc | cttggggcct | ttcccatgtt | ttcttcaaca | 540 |
| agttgaatct | gatgcagcac | agaactatac | tgtcttctac | tcaataaagt | gacgtggagt | 600 |
| tgataaagaa | cctttaaatt | tgttttatat | agaaagagac | actggaaatc | tattttgcac | 660 |
| tcggcctgtg | gatcgtgaag | aatatgatgt | ttttgatttg | attgcttatg | cgtcaactgc | 720 |
| agatggatat | tcagcagatc | tgccccctcc | actaccctac | agggtagagg | atgaaaatga | 780 |
| caaccaccct | gttttcacag | aagcaattta | taattttgaa | gttttggaag | gtagtagacc | 840 |
| tggtactaca | gtgggggtgg | tttgtgccac | agacagagat | gaaccggaca | caatgcatac | 900 |
| gcgcctgaaa | tacagcattt | tgcagcagac | accaaggtca | cctgggctct | tttctgtgca | 960 |
| tcccagcaca | ggcgtaatca | ccacagtctc | tcattatttg | gacagagagg | ttgtagacaa | 1020 |
| gtactcattg | ataatgaaag | tacaagacat | ggatggccag | ttttttggat | tgataggcac | 1080 |
| atcaacttgt | atcataaacg | taacagattc | aatgataat | gcacccactt | tcagacaaaa | 1140 |
| tgcttatgaa | gcattttgtg | aggaaaatgc | attcaatgtg | gaaatcttac | gaatacctat | 1200 |
| agaagataag | gatttaatta | acactgcaa | ttggagagtc | aattttacca | ttttaaaggg | 1260 |
| aaatgaaaat | ggacatttca | aaatcagcac | agacaaaaga | actaatgaag | gtgttctttc | 1320 |
| tgttgtaaag | ccactgaatt | atgaagaaaa | ccgtcaaagt | aacctggaaa | ttggagtaaa | 1380 |
| caatgaagcg | ccatttgcta | gagatattcc | cagagtgcga | gccttgaaca | gagccttggt | 1440 |
| tacagttcat | gtgagggatc | tggatgaggg | gcctgaatgc | actcctgcag | cccaatatgt | 1500 |
| gcggattaaa | gaaaacttag | cagtgggggtc | aaagatcaac | ggctataaag | catatgaccc | 1560 |
| cgaaaataga | aatggcaatg | gtttaaggta | caaaaaattg | catgatccta | aaggttggat | 1620 |
| caccattgat | gaaatttcag | ggtcaatcat | aacttccaaa | atcctggata | gggaggttga | 1680 |
| aactcccaaa | aatgagttgt | ataatattac | agtcttgcca | atagacaaag | atgatagatc | 1740 |
| atgtactgga | acatttgctg | tgaacattga | agatgtaaat | gataatccac | cagaaatact | 1800 |
| tcaagaatat | gtagtcattt | gcaaaccaaa | aatgggggtat | accgacattt | tagctgttga | 1860 |

| | | | | | | |
|------------|-------------|-------------|-------------|------------|------------|------|
| tcctgatgaa | ccgtgccatg | gagctccatt | ttattttcagt | ttgcccaata | cttctccaga | 1920 |
| aatcagtaga | ctgtggagcc | tcaccaaagt | taatgatata | gctgcccgtc | tttcatatca | 1980 |
| gaaaaatgct | ggattttcaag | aatataccat | tcctattact | gtaaaagaca | gggccggcca | 2040 |
| agctgcaaca | aaattattga | gagttaatct | gtgtgaatgt | actcatccaa | ctcagtgtcg | 2100 |
| tgcgacttca | aggagtacag | gagtaatact | tggaaaatgg | gcaatccttg | caatattact | 2160 |
| gggtatagca | ctgctctttt | ctgtattgct | aacttttagta | tgtggagttt | ttggtgcaac | 2220 |
| taaagggaaa | cgttttcctg | aagatttagc | acagcaaaac | ttaattatat | caaacacaga | 2280 |
| agcacctgga | gacgatagag | tgtgctctgc | caatggattt | atgacccaaa | ctaccaacaa | 2340 |
| ctctagccaa | ggtttttgtg | gtactatggg | atcaggaatg | aaaaatggag | ggcaggaaac | 2400 |
| cattgaaatg | atgaaaggag | gaaaccagac | cttggaatcc | tgccgggggg | ctgggcatca | 2460 |
| tcataccctg | gactcctgca | ggggaggaca | cacggaggtg | gacaactgca | gatacactta | 2520 |
| ctcggagtgg | cacagtttta | ctcaaccccg | tctcggtgaa | aaattgcatc | gatgtaatca | 2580 |
| gaatgaagac | cgcattgccat | cccaagatta | tgtcctcact | tataactatg | agggaagagg | 2640 |
| atctccagct | ggttctgtgg | gctgctgcag | tgaaaagcag | gaagaagatg | gccttgactt | 2700 |
| tttaaataat | ttggaaccca | aattttattac | attagcagaa | gcatgcacaa | agagataatg | 2760 |
| tcacagtgtc | acaattaggt | ctttgtcaga | cattctggag | gtttccaaaa | ataatattgt | 2820 |
| aaagttcaat | ttcaacatgt | atgtatatga | tgattttttt | ctcaattttg | aattatgcta | 2880 |
| ctcaccaatt | tatatTTTTA | aagcaagtgt | ttgcttatct | tttccaaaaa | gtgaaaaatg | 2940 |
| ttaaaacaga | caactggtaa | atctcaaaact | ccagcactgg | aattaaggtc | tctaaagcat | 3000 |
| ctgctctttt | ttttttttac | agatatTTTA | gtaataaata | tgctggataa | atattagtcc | 3060 |
| aacaatagct | aagttatgct | aatatcacat | tattatgtat | tcactttaag | tgatagTTTA | 3120 |
| aaaaataaac | aagaaatatt | gagtatcact | atgtgaagaa | agtttttgaa | aagaaacaat | 3180 |
| gaagactgaa | ttaaattaaa | aatgttgacg | ctcataaaga | attggactca | cccctactgc | 3240 |
| actaccaaat | tcatttgact | ttggaggcaa | aatgtgttga | agtgccttat | gaagtagcaa | 3300 |
| ttttctatag | gaatatagtt | ggaaataaat | gtgtgtgtgt | atattattat | taatcaatgc | 3360 |
| aatatTTTAA | tgaaatgaga | acaaagagga | aaatggtaaa | aacttgaaat | gaggctgggg | 3420 |
| tatagtTTTg | cctacaatag | aaaaaagaga | gagcttcccta | ggcctgggct | cttaaagtct | 3480 |
| gcattataac | tgagtctatg | aggaaatagt | tcctgtccaa | tttgtgtaat | ttgtttaaaa | 3540 |
| ttgtaaataa | at | | | | | 3552 |

<210> 127

<211> 754

<212> DNA

<213> Homo sapien

<400> 127

| | | | | | | |
|------------|------------|-------------|-------------|------------|------------|-----|
| tttttttttt | ttgtcattgt | tcattgattt | taatgagaaa | gctaagagag | gaaataagta | 60 |
| gcctttcaaa | ggtcacacag | aagtaagtga | cagatccagg | attcatatcc | aagcattctg | 120 |
| gctctagtgt | ccatgcttct | caaccattat | gacccaatat | tcaaccaa | caatactgaa | 180 |
| ggacacgtga | aatgtatccg | gtatttttact | attacaaaca | aaaatccaat | gaacattctt | 240 |
| gaagacatac | acaaaaataa | tggttacaat | agaagt tact | ggaattgaaa | ttttggttca | 300 |
| acctatatta | aaatgtaagg | cttttgatat | agctaataga | tttttgaaat | gatcagtctt | 360 |
| aacgttttga | ggggagcaca | ctcctgcatg | gggaaaagat | tcactgtgaa | gcacagagca | 420 |
| cctttatggt | tggatcatct | tgtcattaaa | gttcaggcgt | tatctatcct | gtaagtggca | 480 |
| gaatcaagac | tgcaatatcg | cctgcttttc | tttttaactc | atgttttccc | ttgactacac | 540 |
| tggtcctcaa | agtaaaaccc | ctgtgtcagt | gtactattca | tggaatactc | tgcaattata | 600 |
| accaccttct | aatactttta | atacccaatc | aaaattttatt | atacatatgt | atcatagata | 660 |
| ctcatctgta | aagctgtgct | tcaaaatagt | gatctcttcc | caacattaca | atatatatta | 720 |
| atgatgtcga | acctgcccgg | gcggccgctc | gaag | | | 754 |

<210> 128

<211> 374

<212> DNA

<213> Homo sapien

<400> 128

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| aggttttgat | taaaaaggca | aatgatttta | ttgttcgata | atctttttaa | aaaataagag | 60 |
| gaaggagtaa | aattaaagat | gaaagatgat | ttttatttcc | ttgtgacctc | tatatcccc | 120 |
| ttcccctgcc | cttggttaagt | aactcttgat | ggagaaagga | ttaaagactc | ttatttaacc | 180 |
| aaaaaacaga | gccagcta | catttccaaa | ggtagtatc | tccctgctga | cctcttcttt | 240 |
| ggtttaattg | aataaaacta | tatgttcata | tatgtattaa | aacaactcag | aataacatct | 300 |
| tttcttcctt | agttaaggca | ttataagggc | tatactatca | tccataataa | ccaaggcaat | 360 |
| aacttaaaaa | gctg | | | | | 374 |

<210> 129

<211> 546

<212> DNA

<213> Homo sapien

<400> 129

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| agtgtgatgg | atatctgcag | aattcgggct | aagcgtgggc | gcggcccgag | gtctggaact | 60 |
| tcccagcacy | tgaaaaggag | cctcctgagc | tgactcggct | aaagcccccac | tttcgctcct | 120 |
| cctcatttct | gcctactgat | ttccttggag | cattcatctg | aatattaccg | tttgctgtgt | 180 |
| aacctgggtac | atacatagca | tgactccctg | gaatagagtg | ggctgggggtg | cttatgctgg | 240 |
| gagagtgatt | gacatgcact | ttcaagctat | atctaccatt | tgacgcaaag | gagaaaaaat | 300 |
| acctcgagta | aattccatca | ttttttataa | catcagcacc | tgctccatca | tcaaggagtc | 360 |
| tcagcgtaac | aggatctcca | gtctctggct | caactgtggc | agtgcagagt | gcattaagaa | 420 |
| tgggataaaa | tcctgtttc | acattggcat | aatcatcac | aggatgagga | aatggagggc | 480 |
| tgtctctttc | cacaaaggct | tcacagtggt | ctgggggcac | agacctgccc | ggcgcccgcc | 540 |
| tcgaaa | | | | | | 546 |

<210> 130

<211> 5156

<212> DNA

<213> Homo sapien

<400> 130

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|------------|------|
| accaaccgag | gcgcggggca | gcgaccctg | cagcggagac | agagactgag | cgccccggca | 60 |
| ccgccatgcc | tgcgctctgg | ctgggctgct | gcctctgctt | gtcgctcctc | ctgccccgag | 120 |
| cccggggccac | ctccaggagg | gaagtctgtg | attgcaatgg | gaagtccagg | cagtgtatct | 180 |
| ttgatcgga | acttcacaga | caaactggta | atggattccg | ctgcctcaac | tgcaatgaca | 240 |
| acactgatgg | cattcactgc | gagaagtgca | agaatggctt | ttaccggcac | agagaaaggg | 300 |
| accgctgttt | gccctgcaat | tgtaactcca | aaggttctct | tagtgctcga | tgtgacaact | 360 |
| ccggacggtg | cagctgtaaa | ccaggtgtga | caggagccag | atgcgaccga | tgtctgccag | 420 |
| gcttccacat | gtcacaggat | gcgggggtgca | cccaagacca | gagactgcta | gactccaagt | 480 |
| gtgactgtga | cccagctggc | atcgagggc | cctgtgacgc | gggcccgtgt | gtctgcaagc | 540 |
| cagctgtcac | tggagaacgc | tgtgataggt | gtcgatcagg | ttactataat | ctggatgggg | 600 |
| ggaaccctga | gggctgtacc | cagtgtttct | gctatgggca | ttcagccagc | tgccgcagct | 660 |
| ctgcagaata | cagtgtccat | aagatcacct | ctacctttca | tcaagatggt | gatggctgga | 720 |
| aggctgtcca | acgaaatggg | tctcctgcaa | agctccaatg | gtcacagcgc | catcaagatg | 780 |
| tgtttagctc | agcccaacga | ctagaccctg | tctattttgt | ggctcctgcc | aaatttcttg | 840 |
| ggaatcaaca | ggtgagctat | ggtcaaaagg | tgtcctttga | ctaccgtgtg | gacagaggag | 900 |
| gcagacaccc | atctgccc | gatgtgattc | tggaaaggtgc | tgggtctacgg | atcacagctc | 960 |
| ccttgatgcc | acttggaag | acactgcctt | gtgggctcac | caagacttac | acattcaggt | 1020 |
| taaatgagca | tccaagcaat | aattggagcc | cccagctgag | ttactttgag | tatcgaaggt | 1080 |
| tactgcgga | tctcacagcc | ctccgcaccc | gagctacata | tggagaatac | agtactgggt | 1140 |
| acattgacaa | tgtgaccctg | atttcagccc | gccctgtctc | tggagcccca | gcaccctggg | 1200 |
| ttgaacagtg | tatatgtcct | gttgggtaca | aggggcaatt | ctgccaggat | tgtgcttctg | 1260 |

| | | | | | | |
|-------------|------------|-------------|-------------|------------|-------------|------|
| gctacaagag | agattcagcg | agactggggc | cttttggcac | ctgtattcct | tgtaactgtc | 1320 |
| aagggggagg | ggcctgtgat | ccagacacag | gagattgtta | ttcaggggat | gagaatcctg | 1380 |
| acattgagtg | tgctgactgc | ccaattgggt | tctacaacga | tccgcacgac | ccccgcagct | 1440 |
| gcaagccatg | tccctgtcat | aacgggttca | gctgctcagt | gatgccggag | acggaggagg | 1500 |
| tggtgtgcaa | taactgccct | ccgggggtca | ccgggtgccg | ctgtgagctc | tgtgctgatg | 1560 |
| gctacttttg | ggaccccttt | ggtgaacatg | gcccagtgag | gccttgtcag | ccctgtcaat | 1620 |
| gcaacaacaa | tgtggacccc | agtgcctctg | ggaattgtga | ccggctgaca | ggcaggtggt | 1680 |
| tgaagtgtat | ccacaacaca | gccggcatct | actgcgacca | gtgcaaagca | ggctacttcg | 1740 |
| gggacccatt | ggctcccaac | ccagcagaca | agtgtcgagc | ttgcaactgt | aaccccatgg | 1800 |
| gctcagagcc | tgtaggatgt | cgaagtgatg | gcacctgtgt | ttgcaagcca | ggatttgggtg | 1860 |
| gccccaaactg | tgagcatgga | gcattcagct | gtccagcttg | ctataatcaa | gtgaagattc | 1920 |
| agatggatca | gtttatgcag | cagcttcaga | gaatggaggc | cctgatttca | aaggctcagg | 1980 |
| gtggtgatgg | agtagtacct | gatacagagc | tggaaaggcag | gatgcagcag | gctgagcagg | 2040 |
| cccttcagga | cattctgaga | gatgccccaga | tttcagaagg | tgctagcaga | tcccttgggtc | 2100 |
| tccagttggc | caaggtgagg | agccaagaga | acagctacca | gagccgcctg | gatgacctca | 2160 |
| agatgactgt | ggaaagagtt | cgggctctgg | gaagtcagta | ccagaaccga | gttcgggata | 2220 |
| ctcacaggct | catcactcag | atgcagctga | gcctggcaga | aagtgaagct | tccttgggaa | 2280 |
| acactaacat | tcctgcctca | gaccactacg | tggggccaaa | tggctttaaa | agtctggctc | 2340 |
| aggaggccac | aagattagca | gaaagccacg | ttgagtcagc | cagtaacatg | gagcaactga | 2400 |
| caagggaaac | tgaggactat | tccaaacaag | ccctctcact | ggtgcgcaag | gccctgcagt | 2460 |
| aaggagtcgg | aagcggaagc | ggtagcccgg | acgggtgctgt | ggtgcaaggg | cttgtggaaa | 2520 |
| aattggagaa | aaccaagtc | ctggcccagc | agttgacaag | ggaggccact | caagcggaaa | 2580 |
| ttgaagcaga | taggtcttat | cagcacagtc | tccgcctcct | ggattcagtg | tctcggcttc | 2640 |
| agggagtcag | tgatcagtc | tttcaggtgg | aagaagcaaa | gaggatcaaa | caaaaagcgg | 2700 |
| attcactctc | aagcctggta | accaggcata | tggatgagtt | caagcgtaca | cagaagaatc | 2760 |
| tgggaaactg | gaaagaagaa | gcacagcagc | tcttacagaa | tggaaaaagt | gggagagaga | 2820 |
| aatcagatca | gctgctttcc | cgtgccaatc | ttgctaaaag | cagagcacaa | gaagcactga | 2880 |
| gtatgggcaa | tgccactttt | tatgaagttg | agagcatcct | taaaaacctc | agagagtttg | 2940 |
| acctgcaggt | ggacaacaga | aaagcagaag | ctgaagaagc | catgaagaga | ctctcctaca | 3000 |
| tcagccagaa | ggtttcagat | gccagtgaca | agaccagca | agcagaaaga | gccctgggga | 3060 |
| gcgctgctgc | tgatgcacag | agggcaaaga | atggggccgg | ggaggccctg | gaaatctcca | 3120 |
| gtgagattga | acaggagatt | gggagtcctg | acttgggaagc | caatgtgaca | gcagatggag | 3180 |
| ccttggccat | ggaaaaagga | ctggcctctc | tgaagagtga | gatgagggaa | gtggaaggag | 3240 |
| agctggaaag | gaaggagctg | gagtttgaca | cgaatatgga | tgcagtacag | atggtgatta | 3300 |
| cagaagccca | gaaggttgat | accagagcca | agaacgctgg | ggttacaatc | caagacacac | 3360 |
| tcaacacatt | agacggcctc | ctgcatctga | tggaccagcc | tctcagtgta | gatgaaggag | 3420 |
| ggctggctct | actggagcag | aagctttccc | gagccaagac | ccagatcaac | agccaactgc | 3480 |
| ggcccatgat | gtcagagctg | gaagagaggg | cacgtcagca | gaggggccac | ctccatttgc | 3540 |
| tggagacaag | catagatggg | attctggctg | atgtgaagaa | cttgagaaac | attagggaca | 3600 |
| acctgcccc | aggctgctac | aatacccagg | ctcttgagca | acagtgaagc | tgccataaat | 3660 |
| atttctcaac | tgaggttctt | gggatacaga | tctcagggct | cgggagccat | gtcatgtgag | 3720 |
| tgggtgggat | ggggacattt | gaacatgttt | aatgggtatg | ctcaggtcaa | ctgacctgac | 3780 |
| cccatctctg | atcccatggc | caggtgggtg | tcttattgca | ccatactcct | tgcttctctga | 3840 |
| tgctgggcaa | tgaggcagat | agcactgggt | gtgagaatga | tcaaggatct | ggaccccaaa | 3900 |
| gaatagactg | gatggaaaga | caaactgcac | aggcagatgt | ttgcctcata | atagtcgtaa | 3960 |
| gtggagtctt | ggaatttggg | caagtgtctg | tgggatatag | tcaacttatt | ctttgagtaa | 4020 |
| tgtgactaaa | ggaaaaaact | ttgactttgc | ccaggcatga | aattcttctt | aatgtcagaa | 4080 |
| cagagtgcac | cccagtcaca | ctgtggccca | taaaatacta | ttgcctcata | ttgtcctctg | 4140 |
| caagcttctt | gctgatcaga | gttcctccta | cttacaaccc | agggtgtgaa | catgttctcc | 4200 |
| attttcaagc | tggaagaagt | gagcagtggt | ggagtgagga | cctgtaaggc | aggcccatcc | 4260 |
| agagctatgg | tgcttgctgg | tgccctgccac | cttcaagttc | tggacctggg | catgacatcc | 4320 |
| tttcttttaa | tgatgccatg | gcaacttaga | gattgcattt | ttattaaagc | atttctacc | 4380 |
| agcaaagcaa | atgttgggaa | agtattttact | ttttcggttt | caaagtgata | gaaaagtgtg | 4440 |
| gcttgggcat | tgaagaggt | aaaattctct | agatttatta | gtcctaattc | aatcctactt | 4500 |

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|------|
| ttagaacacc | aaaaatgatg | cgcataaatg | tattttatct | tattttctca | atctcctctc | 4560 |
| tctttcctcc | accataata | agagaatgtt | cctactcaca | cttcagctgg | gtcacatcca | 4620 |
| tccctccatt | catccttcca | tccatctttc | catccattac | ctccatccat | ccttccaaca | 4680 |
| tatatattt | gagtacctac | tgtgtgccag | gggtggtgg | gacagtgggtg | acatagtctc | 4740 |
| tgccctcata | gagttgattg | tctagtggag | aagacaagca | tttttaaaaa | ataaatttaa | 4800 |
| acttacaac | tttgtttgtc | acaagtgggtg | tttattgcaa | taaccgcttg | gtttgcaacc | 4860 |
| tctttgctca | acagaacata | tgttgcaaga | ccctcccatg | ggggcacttg | agttttggca | 4920 |
| aggctgacag | agctctgggt | tgtgcacatt | tctttgcatt | ccagctgtca | ctctgtgcct | 4980 |
| ttctacaact | gattgcaaca | gactgttgag | ttatgataac | accagtggga | attgctggag | 5040 |
| gaaccagagg | cacttccacc | ttggctggga | agactatggt | gctgccttgc | ttctgtattt | 5100 |
| ccttggattt | tcttgaaagt | gtttttaaat | aaagaacaat | tgttagaaaa | aaaaaa | 5156 |

<210> 131
 <211> 671
 <212> DNA
 <213> Homo sapien

<400> 131

| | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|-----|
| aggctctggag | ggcccacagc | cggatgtggg | acaccgggaa | aaagtgggtca | tagcacacat | 60 |
| ttttgcatcc | cggttgcagt | gtgttgacaga | cgaagtcctc | ttgctcgtca | ccccacactt | 120 |
| cctgggcagc | caycacgagg | atcatgactc | ggaaaataaa | gatgactgtg | atccacacct | 180 |
| tcccgatgct | ggtggagtgt | ttgttgacac | ccccgatgaa | agtgtgcagc | gtcccccaat | 240 |
| ccattgcgct | ggtttatccc | tgagtcctgt | ttccaacgac | tgccagtgtt | tcagacccaa | 300 |
| agaatgaggg | caagatccct | ctgcgagggg | ttcagacctc | cttctcctac | cccactggag | 360 |
| tgcctagaag | ccaatgggtg | cacagtgatg | atacgaatgt | caatctttgc | tcggtcagt | 420 |
| aggatgtcgc | ctggaatatt | caaattgaat | tacagatgca | tgaagagggc | gtacaagtta | 480 |
| gaatTTTTCT | ttcgccatac | agaaattggt | tagccagatc | ttctgtactt | cttttccttc | 540 |
| cctgaccctt | cctgctcccc | aggaagggag | gtcagccccg | tttgcaaaac | acaggatgcc | 600 |
| cgtgacaccg | gagacaggtc | ttcttcaccg | acaggaagt | ccttctgggtg | cctgcacgtt | 660 |
| ttaactgcta | t | | | | | 671 |

<210> 132
 <211> 590
 <212> DNA
 <213> Homo sapien

<400> 132

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctgaatggaa | aagcttatgg | ctctgtgatg | atattagtga | ccagcggaga | tgataagctt | 60 |
| cttggcaatt | gcttaccac | tgtgtcagc | agtggttcaa | caattcactc | cattgccctg | 120 |
| ggttcatctg | cagccccaaa | tctggaggaa | ttatcacgtc | ttacaggagg | tttaaagttc | 180 |
| tttgttccag | atatatcaaa | ctccaatagc | atgattgatg | ctttcagtag | aatttcctct | 240 |
| ggaactggag | acattttcca | gcaacatatt | cagcttgaaa | gtacaggtga | aaatgtcaaa | 300 |
| cctcaccatc | aattgaaaaa | cacagtgact | gtggataata | ctgtgggcaa | cgacactatg | 360 |
| tttctagtta | cgtggcaggc | cagtggctct | cctgagatta | tattatttga | tcctgatgga | 420 |
| cgaaaatact | acacaaataa | ttttatcacc | aatctaactt | ttcggacagc | tagtctttgg | 480 |
| attccaggaa | cagctaagcc | tgggcactgg | acttacaccc | tgaacaatac | ccatcattct | 540 |
| ctgcaagccc | tgaaagtgac | agtgcacctt | cgcgcctcca | actcagacct | | 590 |

<210> 133
 <211> 581
 <212> DNA
 <213> Homo sapien

<400> 133

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<210> 134
<211> 4797
<212> DNA
<213> Homo sapien
```

<400> 134

| | | | | | | |
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| ctgtgtacct | gtgcagcaca | gggtagggtg | agtcocactca | gctgtctagg | agagagccca | 120 |
| ggagcagcag | agacncgcca | agcctttact | cataccatat | tctgatcctt | ttccagcaaa | 180 |
| ttgtggctac | taatttgccc | cctgaagatc | aagatggctc | tggggatgac | tctgacaact | 240 |
| tctccggctc | aggtgcaggt | gaggttgtca | tgggggcccc | ccccacccaa | gacggcaaca | 300 |
| ggtcattgct | gggggcagtg | gtcaggcagt | ctcctgtgtt | tactgagcat | gtactgagtg | 360 |
| caccctgcct | gccctgtctc | caccagctg | gtcctaaagg | gcaatgctga | ggagaggaat | 420 |
| ggggtcgtga | gctgctgtta | aggagagctc | atgcttggag | gtgaggtgaa | ggctgtgagc | 480 |
| tccagaaggc | cccaggggcg | nctgctgcac | gcaggctcat | attcactagg | aatagcttta | 540 |
| ctcactaaga | aacctctgga | acccccctca | gaaggttatt | tgactcctga | gcctctattt | 600 |
| tctcatctgc | aaaatgggaa | taataacctg | acctgataag | cttgtggagc | tgtaaaggcag | 660 |
| cacagagcca | gctgggggtg | agctcttcca | tccaagctcc | cttccttact | tcccccttcc | 720 |
| tgtggggagt | gggggagaga | agtcctctgag | ctggaggtgg | tcagggaagc | ttcacagagg | 780 |
| aggtggctct | tgagtgagcc | tcaggaagag | gggtgagaga | gctaaggaag | gaggtctagg | 840 |
| tcatccctgg | ggaagtgacc | tagcggaggc | ctgagagctg | caagtagga | tatctgttgt | 900 |
| tggaagtgtc | tgttgttgga | agtggggggc | tttttttcag | ggaggtggg | gccagagaag | 960 |
| tgtgtgcct | gggataagta | ggataaccac | agtagttatg | ccctaaagg | atgccaccc | 1020 |
| caccctgtg | gtcacagaaa | agcttttcca | ggtggcctag | gcacctgtct | cgtggctcca | 1080 |
| gagacaggct | gcacctgaca | cacacaatgg | aaggacagct | ctccttgtcc | attttccaag | 1140 |
| gagcttagcc | tcagctgcct | tgtccaggta | ctagcctccc | tcatagcctg | agcttggcc | 1200 |
| gcccaggctc | tctggagcct | cccccgaccc | acccaacaca | ctctgcttct | ggtcctcccc | 1260 |
| acccccacc | tccccaacac | actctgcttc | tggctctgca | ggtgctttgc | aagatatcac | 1320 |
| cttgtcacag | cagacccccct | ccacttgga | ggacacgcag | ctcctgacgg | ctattcccac | 1380 |
| gtctccagaa | cccaccggcc | tggaggctac | agctgcctcc | acctccaccc | tgccggctgg | 1440 |
| agaggggcc | aaggagggag | aggctgtagt | cctgccagaa | gtggagcctg | gcctcacgc | 1500 |
| cggggagcc | gaggccaccc | cccgaccag | ggagaccaca | cagctccga | ccactcatca | 1560 |
| ggcctcaacy | accacagcca | ccacggccca | ggagcccgc | acctcccacc | cccacaggga | 1620 |
| catgcagcct | ggccaccatg | agacctcaac | ccctgcagga | cccagccaag | ctgaccttca | 1680 |
| cactccccac | acagaggatg | gaggtccttc | tgccaccgag | agggctgctg | aggatggagc | 1740 |
| ctccagtcag | ctcccagcag | cagagggctc | tggggagcag | gtgagtgccc | tctgcattcc | 1800 |
| ttgggaaatt | gagtggggtg | gtcctaattg | ctggcacttg | gcaggcccta | cacctgtgcc | 1860 |
| ctgcgcgac | tcttattcct | caccaggaag | acagggcaca | ggggccgcct | tccccaccc | 1920 |

THE UNIVERSITY OF CHICAGO

```
<210> 135
<211> 2856
<212> DNA
<213> Homo sapien
```

<400> 135

| | | | | | | |
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| tagtcgcggg | tccccgagtg | agcacgccag | ggagcaggag | accaaacgac | gggggtcgga | 60 |
| gtcagagtcg | cagtgggagt | ccccggaccg | gagcacgagc | ctgagcggga | gagcgccgct | 120 |
| cgcacgcccg | tcgccacccg | cgtaccgggc | gcagccagag | ccaccagcgc | agcgtgcca | 180 |
| tggagcccag | cagcaagaag | ctgacgggtc | gcctcatgct | ggctgtggga | ggagcagtg | 240 |
| ttggctccct | gcagtttggc | tacaacactg | gagtcacaa | tgccccccag | aaggtgatcg | 300 |
| aggagttcta | caaccagaca | tgggtccacc | gctatgggga | gagcatcctg | cccaccacgc | 360 |
| tcaccacgct | ctggtccctc | tcagtggcca | tcttttctgt | tgggggcatg | attggctcct | 420 |
| tctctgtggg | ccttttctgt | aaccgctttg | gccggcggaa | ttcaatgctg | atgatgaacc | 480 |
| tgttgccctt | cgtgtccgcc | gtgctcatgg | gcttctcgaa | actgggcaag | tcctttgaga | 540 |
| tgtgatcctt | gggcccgttc | atcatcggtg | tgtactgcgg | cctgaccaca | ggcttcgtgc | 600 |
| ccatgtatgt | gggtgaagtg | tcaccacacg | cctttcgtgg | ggccctgggc | accctgcacc | 660 |
| agctgggcat | cgctgcggc | atcctcatcg | cccaggtgtt | cggcctggac | tccatcatgg | 720 |
| gcaacaagga | cctgtggccc | ctgctgctga | gcacatctt | catcccggcc | ctgctgcagt | 780 |
| gcatcgtgct | gcccttctgc | cccagagagtc | cccgttctct | gctcatcaac | cgcaacgagg | 840 |
| agaaccgggc | caagagtgtg | ctaaagaagc | tgcgcgggac | agctgacgtg | acccatgacc | 900 |
| tgcaggagat | gaaggaagag | agtcggcaga | tgatgcggga | gaagaaggtc | accatcctgg | 960 |
| agctgttccg | ctccccgcgc | taccgccagc | ccatcctcat | cgctgtgggtg | ctgcagctgt | 1020 |
| cccagcagct | gtctggcctc | aacgctgtct | tctattactc | cacgagcatc | ttcgagaagg | 1080 |
| cgggggtgca | gcagcctgtg | tatgccacca | ttggctccgg | tatcgtcaac | acggccttca | 1140 |
| ctgtcgtgtc | gctgtttgtg | gtggagcgag | caggccggcg | gacctgcac | ctcataggcc | 1200 |
| tcgctggcat | ggcgggttgt | gccatactca | tgaccatcgc | gctagcactg | ctggagcagc | 1260 |
| taccctggat | gtcctatctg | agcatcgtgg | ccatctttgg | ctttgtggcc | ttctttgaa | 1320 |
| tgggtcctgg | ccccatccca | tggttcatcg | tggctgaact | cttcagccag | gggtccacgtc | 1380 |
| cagctgccat | tgcggttgca | ggcttctcca | actggacctc | aaatttcatt | gtgggcatgt | 1440 |
| gcttccagta | tgtggagcaa | ctgtgtgggtc | cctacgtctt | catcatcttc | actgtgctcc | 1500 |
| tggttctgtt | cttcactctc | acctaactca | aagttcctga | gactaaaggc | cggaccttcg | 1560 |
| atgagatcgc | ttccggcttc | cggcaggggg | gagccagcca | aagtgataag | acacccgagg | 1620 |
| agctgttcca | tccccgggg | gctgattccc | aagtgtgagt | cgccccagat | caccagcccg | 1680 |
| gcctgctccc | agcagcccta | aggatctctc | aggagcacag | gcagctggat | gagacttcca | 1740 |
| aacctgacag | atgtcagccg | agccgggctc | ggggtcctt | tctccagcca | gcaatgatgt | 1800 |
| ccagaagaat | attcaggact | taacggctcc | aggattttaa | caaaagcaag | actgttgctc | 1860 |
| aaatctattc | agacaagcaa | caggttttat | aatTTTTTTA | ttactgattt | tgttattttt | 1920 |
| atatcagcct | gagtcctcctg | tgcccacatc | ccaggcttca | cctgaatgg | ttccatgcct | 1980 |
| gaggggtggag | actaagccct | gtcagacac | ttgccttctt | cacccagcta | atctgtaggg | 2040 |
| ctggacctat | gtcctaagga | cacactaatc | gaactatgaa | ctacaaagct | tctatcccag | 2100 |
| gaggtggcta | tggccacccg | ttctgctggc | ctggatctcc | ccactctagg | ggtcaggctc | 2160 |
| cattaggatt | tgccecttcc | catctcttcc | tacccaacca | ctcaaattaa | tctttcttta | 2220 |
| cctgagacca | gttgggagca | ctggagtgc | gggaggagag | gggaagggcc | agtctgggct | 2280 |
| gccgggttct | agtctccttt | gcactgaggg | ccacactatt | accatgagaa | gagggcctgt | 2340 |
| gggagcctgc | aaactcactg | ctcaagaaga | catggagact | cctgccctgt | tgtgtataga | 2400 |
| tgcaagatat | ttatatatat | ttttggttgt | caatattaaa | tacagacact | aagttatagt | 2460 |
| atatctggac | aagccaactt | gtaaatacac | cacctcactc | ctgttactta | cctaaacaga | 2520 |
| tataaatggc | tggtttttag | aaacatggtt | ttgaaatgct | tgtggattga | gggtaggagg | 2580 |
| tttggatggg | agttagacag | aagtaagtgg | ggttgcaacc | actgcaacgg | cttagacttc | 2640 |
| gactcaggat | ccagtccctt | acacgtacct | ctcatcagtg | tcctcttgct | caaaaatctg | 2700 |
| tttgatccct | gttaccacga | gaatatatac | attctttatc | ttgacattca | aggcatttct | 2760 |
| atcacatatt | tgatagttgg | tgttcaaaaa | aacactagtt | ttgtgccagc | cgtgatgctc | 2820 |
| aggcttgaaa | tcgcattatt | ttgaatgtga | agggaa | | | 2856 |

<210> 136

<211> 356

<212> DNA

<213> Homo sapien

<400> 136

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| ggtggagcca | aatgaagaaa | atgaagatga | aagagacaga | cacctcagtt | tttctggatc | 60 |
| aggcattgat | gatgatgaag | attttatctc | cagcaccatt | tcaaccacac | cacgggcttt | 120 |
| tgaccacaca | aaacagaacc | aggactggac | tcagtggaa | ccaagccatt | caaattccgga | 180 |
| agtgtacttt | cagacaacca | caaggatgac | tgatgtagac | agaaatggca | ccactgctta | 240 |
| tgaaggaaac | tggaacccag | aagcacaccc | tccctcatt | caccatgagc | atcatgagga | 300 |
| agaagagacc | ccacattcta | caagcacaat | ccaggcaact | cctagtagta | caacgg | 356 |

<210> 137

<211> 356

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(356)

<223> n = A,T,C or G

<400> 137

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| gcaggtggag | aagacatddd | attgttctctg | gggtctctg | aggccattg | gtggggctgg | 60 |
| gtcactggct | gcccccgaa | cagggcgctg | ctccatggct | ctgcttggtg | tagtctgtgg | 120 |
| ctatgtctcc | cagcaaggac | agaaactcag | aaaaatcaat | cttcttatcc | tcattcttgt | 180 |
| cctttttctc | aaagacatcg | gcgaggtaat | ttgtgccctt | tttacctcgg | cccgcgacca | 240 |
| cgctaaggcc | aaanttccag | acanayggcc | gggccggtn | nataggggan | cccaacttgg | 300 |
| ggacccaaac | tctggcgcg | aaacacangg | gcataagctt | gnttcctgtg | gggaaa | 356 |

<210> 138

<211> 353

<212> DNA

<213> Homo sapien

<400> 138

| | | | | | | |
|------------|-------------|------------|-------------|-------------|------------|-----|
| aggtccagtc | ctccacttgg | cctgatgaga | gtggggagtg | gcaagggacg | tttctcctgc | 60 |
| aatagacact | tagattttctc | tcttggtgga | agaaaccacc | tgtccatcca | ctgactcttc | 120 |
| tacattgatg | tggaatttgc | tgctgtacc | accacctcct | gaagaggctt | ccctgatgcc | 180 |
| aatgccagcc | atcttggcat | cctggccctc | gagcaggctg | cggttaagtag | cgatctcctg | 240 |
| ctccagccgt | gtctttatgt | caagcagcat | cttggtactcc | tggttctgag | cctccatctc | 300 |
| gcacggagc | tcactcagac | ctcgscgsg | mssmcgctam | gccgaattcc | agc | 353 |

<210> 139

<211> 371

<212> DNA

<213> Homo sapien

<400> 139

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| agcgtggtcg | cggccgaggt | ccatccgaag | caagattgca | gatggcagtg | tgaagagaga | 60 |
| agacatatcc | tacacttcaa | agctttgggtg | caattcccat | cgaccagagt | tggtccgacc | 120 |
| agccttgga | aggctactga | aaaatcttca | attggattat | gttgacctct | accttattca | 180 |
| ttttccagtg | tctgtaaagc | caggtgagga | agtgatccca | aaagatgaaa | atggaaaaat | 240 |
| actatttgac | acagtggatc | tctgtgccac | gtgggaggcc | gtggagaagt | gtaaagatgc | 300 |
| aggattggac | ctgcccgggc | ggccgctcga | aagccgaatt | ccagcacact | ggcggccggt | 360 |
| actagtggat | c | | | | | 371 |

<210> 140
 <211> 370
 <212> DNA
 <213> Homo sapien

<400> 140
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 aggagctgcc tgagtgggtac tttctcttcc tggtaatcct ctggcccagc ctcatggcag 180
 aatagaggta tttttaggct atttttgtaa tatggcttct ggtcaaaatc cctgtgtagc 240
 tgaattccca agccctgcat tgtacagccc cccactcccc tcaccaccta ataaaaggaat 300
 agttaacact caaaaaaaaa aaaaaacctg cccgggcggc cgctcgaaag ccgaattcca 360
 gcacactggc 370

<210> 141
 <211> 371
 <212> DNA
 <213> Homo sapien

<400> 141
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 aaggagcttc aggggtcctgg tactcctcca cagaatactc ggagtattca gagtactcat 180
 catcctcagg gggatcccg ctttctctct ctgcatgaga gacgcggagc acaggcacag 240
 catggagctg ggagccggca gtgtctgcag cataactagg gaggggtcgt gatccagatg 300
 cgatgaactg gccctggcag gcacagtgt gactcatctc ttggcgacct gcccgggcgg 360
 ccgctcgaag c 371

<210> 142
 <211> 343
 <212> DNA
 <213> Homo sapien

<400> 142
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 agagcagttt tgaaacactc tttttagaaa tttgcaagcg gatgattgga tcgctatgag 180
 gtcttcattg gaaacgggat acctttacat aaaaactaga cagtagcatt ctcaaaaatt 240
 tctttgggat gtgggcattc aaccacaga ggagaacttc atttgataga gcagttttga 300
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 <211> 354
 <212> DNA
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<400> 143
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<210> 144
 <211> 353
 <212> DNA
 <213> Homo sapien

<400> 144
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 aagatgacag actaagtagg attctgccat ttagaataat tctggatatcc tgggcgttgc 180
 gttaagttgc ttaactttca ttctgtctta cgatagtctt cagaggtggg aacagatgaa 240
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 aggtttgcct gataccagac ctgtggcccc acctcccatg caggtctctg tgg 353

<210> 145
 <211> 371
 <212> DNA
 <213> Homo sapien

<400> 145
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 attgccactg ttgatcacta gctttttctt ctgcccacac cttcttcgac tgttgactgc 180
 aatgcaaact gcaagaatca aagccaaggc caagagggat gccaatga tcagccattc 240
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 <211> 355
 <212> DNA
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 cggcgaggaa gtggcagtga agctagaatc tcagaaggcc aggcattccc agttgctgta 240
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<210> 147
 <211> 355
 <212> DNA
 <213> Homo sapien

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<210> 148

<211> 369
 <212> DNA
 <213> Homo sapien

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 acttcttca 369

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 <223> n = A,T,C or G

<400> 149
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 ataaggtaa aagttgttaa tgaccaaaaca ttctaaaaga aatgcaaaaa aaaagtttat 360
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<210> 150
 <211> 371
 <212> DNA
 <213> Homo sapien

<400> 150
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 atgtgaaaa ccacctgggt tgcagtgtatg cccgaatttg yaattctttt ctctcaaattg 180
 aaaatttaatt tttagggtatt catttctata ttttcacata ttagtatta ttatttcctt 240
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 ttacttttat a 371

<210> 151
 <211> 4655
 <212> DNA
 <213> Homo sapien

<400> 151

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| gggttggcaa | aatcctggag | ccagaagaaa | ggacagcagc | attgatcaat | cttacagcta | 120 |
| acatgttgta | cctggaaaac | aatgcccgaga | ctcaatttag | tgagccacag | tacacgaacc | 180 |
| tggggctcct | gaacagcatg | gaccagcaga | ttcagaacgg | ctcctcgtec | accagtcctt | 240 |
| ataacacaga | ccacgcgcag | aacagcgtca | cggcgccctc | gccctacgca | cagcccagct | 300 |
| ccaccttcga | tgctctctct | ccatcacccg | ccatcccttc | caacaccgac | taccagggcc | 360 |
| cgcacagttt | cgacgtgtcc | ttccagcagt | cgagcaccgc | caagtcggcc | acctggacgt | 420 |
| attccactga | actgaagaaa | ctctactgcc | aaattgcaaa | gacatgcccc | atccagatca | 480 |
| aggtgatgac | cccacctcct | cagggagctg | ttatccgcgc | catgcctgtc | tacaaaaaag | 540 |
| ctgagcacgt | cacggagggtg | gtgaagcggg | gccccaaacca | tgagctgagc | cgtgaattca | 600 |
| acgagggaca | gattgcccct | yctagtcatt | tgattcgagt | agaggggaac | agccatgccc | 660 |
| agtatgtaga | agatcccatc | acaggaagac | agagtgtgct | ggtaccttat | gagccacccc | 720 |
| aggttggcac | tgaattcacg | acagtcttgt | acaatttcat | gtgtaacagc | agttgtgttg | 780 |
| gagggatgaa | ccgcccgtcca | attttaatca | ttgttactct | ggaaaccaga | gatgggcaag | 840 |
| tcctggggcg | acgtcgtctt | gaggcccgga | tctgtgcttg | cccaggaaga | gacaggaagg | 900 |
| cggatgaaga | tagcatcaga | aagcagcaag | tttcggacag | tacaaaagaac | ggtgatggtta | 960 |
| cgaagcgccc | gtttcgtcag | aacacacatg | gtatccagat | gacatccatc | aagaaacgaa | 1020 |
| gatccccaga | tgatgaactg | gtatacttac | cagtggaggg | ccgtgagact | tatgaaatgc | 1080 |
| tggtgaagat | caaagagtcc | ctggaaactca | tgcagtacct | tcttcagcac | acaattgaaa | 1140 |
| cgtacaggca | acagcaacag | cagcagcacc | agcacttact | tcagaaacag | acctcaatac | 1200 |
| agtctccatc | ttcatatggg | aacagctccc | cacctctgaa | caaaatgaac | agcatgaaca | 1260 |
| agctgccttc | tgtgagccag | cttatcaacc | ctcagcagcg | caacgccttc | actcctacaa | 1320 |
| ccattcctga | tggcatggga | gccaaacattc | ccatgatggg | caccacatg | ccaatggctg | 1380 |
| gagacatgaa | tggactcagc | cccaccaggg | cactcccttc | cccactctcc | atgccatcca | 1440 |
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<211> 586

<212> PRT

<213> Homo sapien

<400> 152

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 Gly Ser Ser Ser Thr Ser Pro Tyr Asn Thr Asp His Ala Gln Asn Ser
 35 40 45
 Val Thr Ala Pro Ser Pro Tyr Ala Gln Pro Ser Ser Thr Phe Asp Ala
 50 55 60
 Leu Ser Pro Ser Pro Ala Ile Pro Ser Asn Thr Asp Tyr Pro Gly Pro
 65 70 75 80
 His Ser Phe Asp Val Ser Phe Gln Gln Ser Ser Thr Ala Lys Ser Ala
 85 90 95
 Thr Trp Thr Tyr Ser Thr Glu Leu Lys Lys Leu Tyr Cys Gln Ile Ala
 100 105 110
 Lys Thr Cys Pro Ile Gln Ile Lys Val Met Thr Pro Pro Pro Gln Gly
 115 120 125
 Ala Val Ile Arg Ala Met Pro Val Tyr Lys Lys Ala Glu His Val Thr
 130 135 140
 Glu Val Val Lys Arg Cys Pro Asn His Glu Leu Ser Arg Glu Phe Asn
 145 150 155 160
 Glu Gly Gln Ile Ala Pro Ser Ser His Leu Ile Arg Val Glu Gly Asn

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | | | 165 | | | | | 170 | | | | | 175 | | | |
| Ser | His | Ala | Gln | Tyr | Val | Glu | Asp | Pro | Ile | Thr | Gly | Arg | Gln | Ser | Val | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | |
| Leu | Val | Pro | Tyr | Glu | Pro | Pro | Gln | Val | Gly | Thr | Glu | Phe | Thr | Thr | Val | | |
| | | 195 | | | | | 200 | | | | | 205 | | | | | |
| Leu | Tyr | Asn | Phe | Met | Cys | Asn | Ser | Ser | Cys | Val | Gly | Gly | Met | Asn | Arg | | |
| | 210 | | | | | 215 | | | | | 220 | | | | | | |
| Arg | Pro | Ile | Leu | Ile | Ile | Val | Thr | Leu | Glu | Thr | Arg | Asp | Gly | Gln | Val | | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | | |
| Leu | Gly | Arg | Arg | Cys | Phe | Glu | Ala | Arg | Ile | Cys | Ala | Cys | Pro | Gly | Arg | | |
| | | | | 245 | | | | 250 | | | | | | 255 | | | |
| Asp | Arg | Lys | Ala | Asp | Glu | Asp | Ser | Ile | Arg | Lys | Gln | Gln | Val | Ser | Asp | | |
| | | 260 | | | | | 265 | | | | | | 270 | | | | |
| Ser | Thr | Lys | Asn | Gly | Asp | Gly | Thr | Lys | Arg | Pro | Phe | Arg | Gln | Asn | Thr | | |
| | 275 | | | | | | 280 | | | | | 285 | | | | | |
| His | Gly | Ile | Gln | Met | Thr | Ser | Ile | Lys | Lys | Arg | Arg | Ser | Pro | Asp | Asp | | |
| | 290 | | | | | 295 | | | | | 300 | | | | | | |
| Glu | Leu | Val | Tyr | Leu | Pro | Val | Arg | Gly | Arg | Glu | Thr | Tyr | Glu | Met | Leu | | |
| 305 | | | | 310 | | | | | | 315 | | | | | 320 | | |
| Val | Lys | Ile | Lys | Glu | Ser | Leu | Glu | Leu | Met | Gln | Tyr | Leu | Leu | Gln | His | | |
| | | | 325 | | | | | 330 | | | | | | 335 | | | |
| Thr | Ile | Glu | Thr | Tyr | Arg | Gln | Gln | Gln | Gln | Gln | Gln | His | Gln | His | Leu | | |
| | 340 | | | | | 345 | | | | | | | 350 | | | | |
| Leu | Gln | Lys | Gln | Thr | Ser | Ile | Gln | Ser | Pro | Ser | Ser | Tyr | Gly | Asn | Ser | | |
| | 355 | | | | | 360 | | | | | | 365 | | | | | |
| Ser | Pro | Pro | Leu | Asn | Lys | Met | Asn | Ser | Met | Asn | Lys | Leu | Pro | Ser | Val | | |
| | 370 | | | | 375 | | | | | 380 | | | | | | | |
| Ser | Gln | Leu | Ile | Asn | Pro | Gln | Gln | Arg | Asn | Ala | Leu | Thr | Pro | Thr | Thr | | |
| 385 | | | | 390 | | | | | 395 | | | | | | 400 | | |
| Ile | Pro | Asp | Gly | Met | Gly | Ala | Asn | Ile | Pro | Met | Met | Gly | Thr | His | Met | | |
| | | | 405 | | | | | 410 | | | | | | 415 | | | |
| Pro | Met | Ala | Gly | Asp | Met | Asn | Gly | Leu | Ser | Pro | Thr | Gln | Ala | Leu | Pro | | |
| | 420 | | | | | | 425 | | | | | | 430 | | | | |
| Pro | Pro | Leu | Ser | Met | Pro | Ser | Thr | Ser | His | Cys | Thr | Pro | Pro | Pro | Pro | | |
| | 435 | | | | | 440 | | | | | | 445 | | | | | |
| Tyr | Pro | Thr | Asp | Cys | Ser | Ile | Val | Ser | Phe | Leu | Ala | Arg | Leu | Gly | Cys | | |
| | 450 | | | | 455 | | | | | 460 | | | | | | | |
| Ser | Ser | Cys | Leu | Asp | Tyr | Phe | Thr | Thr | Gln | Gly | Leu | Thr | Thr | Ile | Tyr | | |
| 465 | | | | 470 | | | | | 475 | | | | | | 480 | | |
| Gln | Ile | Glu | His | Tyr | Ser | Met | Asp | Asp | Leu | Ala | Ser | Leu | Lys | Ile | Pro | | |
| | | | 485 | | | | | 490 | | | | | | 495 | | | |
| Glu | Gln | Phe | Arg | His | Ala | Ile | Trp | Lys | Gly | Ile | Leu | Asp | His | Arg | Gln | | |
| | | | 500 | | | | 505 | | | | | | 510 | | | | |
| Leu | His | Glu | Phe | Ser | Ser | Pro | Ser | His | Leu | Leu | Arg | Thr | Pro | Ser | Ser | | |
| | 515 | | | | | 520 | | | | | | 525 | | | | | |
| Ala | Ser | Thr | Val | Ser | Val | Gly | Ser | Ser | Glu | Thr | Arg | Gly | Glu | Arg | Val | | |
| | 530 | | | | | 535 | | | | | 540 | | | | | | |
| Ile | Asp | Ala | Val | Arg | Phe | Thr | Leu | Arg | Gln | Thr | Ile | Ser | Phe | Pro | Pro | | |
| 545 | | | | 550 | | | | | 555 | | | | | | 560 | | |
| Arg | Asp | Glu | Trp | Asn | Asp | Phe | Asn | Phe | Asp | Met | Asp | Ala | Arg | Arg | Asn | | |
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| Lys | Gln | Gln | Arg | Ile | Lys | Glu | Glu | Gly | Glu | | | | | | | | |
| | | | 580 | | | | | 585 | | | | | | | | | |

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<210> 153
 <211> 2007
 <212> DNA
 <213> Homo sapien

<400> 153

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| acatggccag | caagaaagta | attacagtgt | ttggagcaac | aggagctcaa | ggtggctctg | 120 |
| tggccagggc | aattttggag | agcaaaaaat | ttgcagttag | agcagtgacc | agggatgtga | 180 |
| cttgaccaaa | tgccctggag | ctccagcgcc | ttggagctga | ggtggtcaaa | ggtgacctga | 240 |
| atgataaagc | atcggtggac | agtgccttaa | aaggtgtcta | tggtggccttc | ttggtgacca | 300 |
| acttctggga | ccctctcaac | caagataagg | aagtgtgtcg | ggggaagctg | gtggcagact | 360 |
| ccgccaagca | cctgggtctg | aagcacgtgg | tgtacagcgg | cctggagaac | gtcaagcgac | 420 |
| tgacggatgg | caagctggag | gtgccgcact | ttgacagcaa | gggcgagggtg | gaggagtact | 480 |
| tctggtccat | tggcatcccc | atgaccagtg | tccgcgtggc | ggcctacttt | gaaaactttc | 540 |
| tgcgcgctg | gcggcccggtg | aaagcctctg | atggagatta | ctacaccttg | gctgtaccga | 600 |
| tgaggagatg | accaatggat | ggtatctctg | ttgctgatat | tggagcagcc | gtctctagca | 660 |
| tttttaattc | tccagaggaa | tttttaggca | aggccttggg | gctcagtgca | gaagcactaa | 720 |
| caatacagca | atatgctgat | gttttgtcca | aggccttggg | gaaagaagtc | cgagatgcaa | 780 |
| agattacccc | ggaagctttc | gagaagctgg | gattccctgc | agcaaaggaa | atagccaata | 840 |
| tgtgtcgttt | ctatgaaatg | aagccagacc | gagatgtcaa | tctcaccac | caactaaatc | 900 |
| ccaaagtcaa | aagcttcagc | cagtttatct | cagagaacca | gggagccttc | aagggcatgt | 960 |
| agaaaatcag | ctgttcagat | aggcctctgc | accacacagc | ctctttcctc | tctgatcctt | 1020 |
| ttcctcttta | cggcacaaca | ttcatgttga | cagaacatgc | tggaatgcaa | ttgtttgcaa | 1080 |
| caccgaagga | tttctgcg | tcgcctcttc | agtaggaagc | actgcattgg | tgataggaca | 1140 |
| cggtaatgtg | attcacattt | aacttgctag | ttagtgataa | gggtggtaca | actgtttggt | 1200 |
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| actgggattt | ctcctgggtg | agtaatttca | agccctaattg | ctgaaattcc | cctaggcagc | 1320 |
| tccagttttc | tcaactgcat | tgcaaaattc | ccagtgaact | tttaagtact | tttaacttaa | 1380 |
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| caaaatccag | gggatctgca | gtggggagcg | ggggcaggaa | gctggaggga | aggcctgtga | 1800 |
| agggtaggga | tgtggaaaga | caaggtgaca | gaaggaccca | ataggacctt | tctatatctc | 1860 |
| tggcttagca | ttttctacat | catattgtaa | tcgtcttatt | tgctagtttt | cttccttact | 1920 |
| gtgagtgact | aacagtcac | tttatcccag | tgctgtgtac | ataataagtg | atcaataaat | 1980 |
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<400> 154

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| tggccagggc | aattttggag | agcaaaaaat | ttgcagttag | agcagtgacc | agggatgtga | 180 |
| cttgaccaaa | tgccctggag | ctccagcgcc | ttggagctga | ggtggtcaaa | ggtgacctga | 240 |
| atgataaagc | atcggtggac | agtgccttaa | aaggggaagc | tggtggcaga | ctccgccaa | 300 |
| cacctgggtc | tgaagcacgt | ggtgtacagc | ggcctggaga | acgtcaagcg | actgacggat | 360 |
| ggcaagctgg | aggtgccgca | ctttgacagc | aagggcgagg | tggaggagta | cttctggtcc | 420 |

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<211> 153

<212> PRT

<213> Homo sapien

<400> 155

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 Pro Met Gly Asp Val Pro Met Asp Gly Ile Ser Val Ala Asp Ile Gly
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 Ala Ala Val Ser Ser Ile Phe Asn Ser Pro Glu Glu Phe Leu Gly Lys
 50 55 60
 Ala Val Gly Leu Ser Ala Glu Ala Leu Thr Ile Gln Gln Tyr Ala Asp
 65 70 75 80
 Val Leu Ser Lys Ala Leu Gly Lys Glu Val Arg Asp Ala Lys Ile Thr
 85 90 95
 Pro Glu Ala Phe Glu Lys Leu Gly Phe Pro Ala Ala Lys Glu Ile Ala
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 Asn Met Cys Arg Phe Tyr Glu Met Lys Pro Asp Arg Asp Val Asn Leu
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<213> Homo sapien

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35 40 45
Ala Ala Val Ser Ser Ile Phe Asn Ser Pro Glu Glu Phe Leu Gly Lys
50 55 60
Ala Val Gly Leu Ser Ala Glu Ala Leu Thr Ile Gln Gln Tyr Ala Asp
65 70 75 80
Val Leu Ser Lys Ala Leu Gly Lys Glu Val Arg Asp Ala Lys Thr Ile
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<210> 159

<211> 291

<212> PRT

<213> Homo sapien

<400> 159

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 Glu Asp Phe Val Cys Asn Thr Leu Gln Pro Gly Cys Lys Asn Val Cys
 50 55 60
 Tyr Asp His Phe Phe Pro Val Ser His Ile Arg Leu Trp Ala Leu Gln
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 Leu Ile Phe Val Ser Thr Pro Ala Leu Leu Val Ala Met His Val Ala
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 Tyr Tyr Arg His Glu Thr Thr Arg Lys Phe Arg Arg Gly Glu Lys Arg
 100 105 110

Asn Asp Phe Lys Asp Ile Glu Asp Ile Lys Lys Gln Lys Val Arg Ile
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 Glu Gly Ser Leu Trp Trp Thr Tyr Thr Ser Ser Ile Phe Phe Arg Ile
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 Ile Phe Glu Ala Ala Phe Met Tyr Val Phe Tyr Phe Leu Tyr Asn Gly
 145 150 155 160
 Tyr His Leu Pro Trp Val Leu Lys Cys Gly Ile Asp Pro Cys Pro Asn
 165 170 175
 Leu Val Asp Cys Phe Ile Ser Arg Pro Thr Glu Lys Thr Val Phe Thr
 180 185 190
 Ile Phe Met Ile Ser Ala Ser Val Ile Cys Met Leu Leu Asn Val Ala
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 Glu Leu Cys Tyr Leu Leu Leu Lys Val Cys Phe Arg Arg Ser Lys Arg
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 Gln Asn Glu Met Asn Glu Leu Ile Ser Asp Ser Gly Gln Asn Ala Ile
 245 250 255
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 Ser Val Ala
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<210> 160
 <211> 3951
 <212> DNA
 <213> Homo sapien

<400> 160

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| tgtgactctc | ctggttgcc | taagttcaga | actcccattc | ctgggagctg | gagtacagct | 180 |
| tcaagacaat | gggtataatg | gattgctcat | tgcaattaat | cctcaggtac | ctgagaatca | 240 |
| gaacctcatc | tcaaacatta | aggaaatgat | aactgaagct | tcattttacc | tatttaatgc | 300 |
| taccaagaga | agagtatttt | tcagaaatat | aaagatttta | atacctgcca | catggaaaagc | 360 |
| taataataac | agcaaaataa | aacaagaatc | atatgaaaag | gcaaagtgtca | tagtgactga | 420 |
| ctggtatggg | gcacatggag | atgatccata | caccctacaa | tacagagggg | gtggaaaaaga | 480 |
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| ctgtattatt | agtaagcttt | ttaaagaagg | atgcaccttt | atctacaata | gcacccaaaa | 780 |
| tgcaactgca | tcaataatgt | tcatgcaaag | tttatcttct | gtggttgaat | tttgtaatgc | 840 |
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| cagcaaaaag | gagatcagag | cccagctaca | ccaaattaac | agcaatgatg | atcgaaagtt | 1200 |
| gctggtttca | tatctgccca | ccactgtatc | agctaaaaca | gacatcagca | tttgttcagg | 1260 |
| gcttaagaaa | ggatttgagg | tggttgaaaa | actgaatgga | aaagcttatg | gctctgtgat | 1320 |
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<210> 161

<211> 943

<212> PRT

<213> Homo sapien

<400> 161

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      20             25             30

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| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Gln | Leu | Gln | Asp | Asn | Gly | Tyr | Asn | Gly | Leu | Leu | Ile | Ala | Ile | Asn |
| | | 35 | | | | 40 | | | | | | 45 | | | |
| Pro | Gln | Val | Pro | Glu | Asn | Gln | Asn | Leu | Ile | Ser | Asn | Ile | Lys | Glu | Met |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Ile | Thr | Glu | Ala | Ser | Phe | Tyr | Leu | Phe | Asn | Ala | Thr | Lys | Arg | Arg | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Phe | Phe | Arg | Asn | Ile | Lys | Ile | Leu | Ile | Pro | Ala | Thr | Trp | Lys | Ala | Asn |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asn | Asn | Ser | Lys | Ile | Lys | Gln | Glu | Ser | Tyr | Glu | Lys | Ala | Asn | Val | Ile |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Val | Thr | Asp | Trp | Tyr | Gly | Ala | His | Gly | Asp | Asp | Pro | Tyr | Thr | Leu | Gln |
| | | 115 | | | | 120 | | | | | | 125 | | | |
| Tyr | Arg | Gly | Cys | Gly | Lys | Glu | Gly | Lys | Tyr | Ile | His | Phe | Thr | Pro | Asn |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Phe | Leu | Leu | Asn | Asp | Asn | Leu | Thr | Ala | Gly | Tyr | Gly | Ser | Arg | Gly | Arg |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Val | Phe | Val | His | Glu | Trp | Ala | His | Leu | Arg | Trp | Gly | Val | Phe | Asp | Glu |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Tyr | Asn | Asn | Asp | Lys | Pro | Phe | Tyr | Ile | Asn | Gly | Gln | Asn | Gln | Ile | Lys |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Val | Thr | Arg | Cys | Ser | Ser | Asp | Ile | Thr | Gly | Ile | Phe | Val | Cys | Glu | Lys |
| | | 195 | | | | 200 | | | | | | 205 | | | |
| Gly | Pro | Cys | Pro | Gln | Glu | Asn | Cys | Ile | Ile | Ser | Lys | Leu | Phe | Lys | Glu |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Gly | Cys | Thr | Phe | Ile | Tyr | Asn | Ser | Thr | Gln | Asn | Ala | Thr | Ala | Ser | Ile |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Met | Phe | Met | Gln | Ser | Leu | Ser | Ser | Val | Val | Glu | Phe | Cys | Asn | Ala | Ser |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Thr | His | Asn | Gln | Glu | Ala | Pro | Asn | Leu | Gln | Asn | Gln | Met | Cys | Ser | Leu |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Arg | Ser | Ala | Trp | Asp | Val | Ile | Thr | Asp | Ser | Ala | Asp | Phe | His | His | Ser |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Phe | Pro | Met | Asn | Gly | Thr | Glu | Leu | Pro | Pro | Pro | Pro | Thr | Phe | Ser | Leu |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Val | Glu | Ala | Gly | Asp | Lys | Val | Val | Cys | Leu | Val | Leu | Asp | Val | Ser | Ser |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| Lys | Met | Ala | Glu | Ala | Asp | Arg | Leu | Leu | Gln | Leu | Gln | Gln | Ala | Ala | Glu |
| | | | | 325 | | | | | 330 | | | | | 335 | |
| Phe | Tyr | Leu | Met | Gln | Ile | Val | Glu | Ile | His | Thr | Phe | Val | Gly | Ile | Ala |
| | | | 340 | | | | 345 | | | | | | 350 | | |
| Ser | Phe | Asp | Ser | Lys | Gly | Glu | Ile | Arg | Ala | Gln | Leu | His | Gln | Ile | Asn |
| | | 355 | | | | 360 | | | | | | 365 | | | |
| Ser | Asn | Asp | Asp | Arg | Lys | Leu | Leu | Val | Ser | Tyr | Leu | Pro | Thr | Thr | Val |
| | 370 | | | | | 375 | | | | | 380 | | | | |
| Ser | Ala | Lys | Thr | Asp | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Phe | Val | Pro | Asp | Ile | Ser | Asn | Ser | Asn | Ser | Met | Ile | Asp | Ala | Phe |
| 465 | | | | | 470 | | | | | 475 | | | | | 480 |
| Ser | Arg | Ile | Ser | Ser | Gly | Thr | Gly | Asp | Ile | Phe | Gln | Gln | His | Ile | Gln |
| | | | | 485 | | | | | 490 | | | | | 495 | |
| Leu | Glu | Ser | Thr | Gly | Glu | Asn | Val | Lys | Pro | His | His | Gln | Leu | Lys | Asn |
| | | | 500 | | | | | 505 | | | | | 510 | | |
| Thr | Val | Thr | Val | Asp | Asn | Thr | Val | Gly | Asn | Asp | Thr | Met | Phe | Leu | Val |
| | | 515 | | | | | 520 | | | | | 525 | | | |
| Thr | Trp | Gln | Ala | Ser | Gly | Pro | Pro | Glu | Ile | Ile | Leu | Phe | Asp | Pro | Asp |
| | 530 | | | | | 535 | | | | | 540 | | | | |
| Gly | Arg | Lys | Tyr | Tyr | Thr | Asn | Asn | Phe | Ile | Thr | Asn | Leu | Thr | Phe | Arg |
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| Thr | Ala | Ser | Leu | Trp | Ile | Pro | Gly | Thr | Ala | Lys | Pro | Gly | His | Trp | Thr |
| | | | | 565 | | | | | 570 | | | | | 575 | |
| Tyr | Thr | Leu | Asn | Asn | Thr | His | His | Ser | Leu | Gln | Ala | Leu | Lys | Val | Thr |
| | | | 580 | | | | | 585 | | | | | 590 | | |
| Val | Thr | Ser | Arg | Ala | Ser | Asn | Ser | Ala | Val | Pro | Pro | Ala | Thr | Val | Glu |
| | | 595 | | | | | 600 | | | | | 605 | | | |
| Ala | Phe | Val | Glu | Arg | Asp | Ser | Leu | His | Phe | Pro | His | Pro | Val | Met | Ile |
| | 610 | | | | | 615 | | | | | 620 | | | | |
| Tyr | Ala | Asn | Val | Lys | Gln | Gly | Phe | Tyr | Pro | Ile | Leu | Asn | Ala | Thr | Val |
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| Thr | Ala | Thr | Val | Glu | Pro | Glu | Thr | Gly | Asp | Pro | Val | Thr | Leu | Arg | Leu |
| | | | | 645 | | | | | 650 | | | | | 655 | |
| Leu | Asp | Asp | Gly | Ala | Gly | Ala | Asp | Val | Ile | Lys | Asn | Asp | Gly | Ile | Tyr |
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| Ser | Arg | Tyr | Phe | Phe | Ser | Phe | Ala | Ala | Asn | Gly | Arg | Tyr | Ser | Leu | Lys |
| | | 675 | | | | | 680 | | | | | 685 | | | |
| Val | His | Val | Asn | His | Ser | Pro | Ser | Ile | Ser | Thr | Pro | Ala | His | Ser | Ile |
| | 690 | | | | | 695 | | | | | 700 | | | | |
| Pro | Gly | Ser | His | Ala | Met | Tyr | Val | Pro | Gly | Tyr | Thr | Ala | Asn | Gly | Asn |
| 705 | | | | | 710 | | | | | 715 | | | | | 720 |
| Ile | Gln | Met | Asn | Ala | Pro | Arg | Lys | Ser | Val | Gly | Arg | Asn | Glu | Glu | Glu |
| | | | | 725 | | | | | 730 | | | | | 735 | |
| Arg | Lys | Trp | Gly | Phe | Ser | Arg | Val | Ser | Ser | Gly | Gly | Ser | Phe | Ser | Val |
| | | | 740 | | | | | 745 | | | | | 750 | | |
| Leu | Gly | Val | Pro | Ala | Gly | Pro | His | Pro | Asp | Val | Phe | Pro | Pro | Cys | Lys |
| | | 755 | | | | | 760 | | | | | 765 | | | |
| Ile | Ile | Asp | Leu | Glu | Ala | Val | Lys | Val | Glu | Glu | Glu | Leu | Thr | Leu | Ser |
| | 770 | | | | | 775 | | | | | 780 | | | | |
| Trp | Thr | Ala | Pro | Gly | Glu | Asp | Phe | Asp | Gln | Gly | Gln | Ala | Thr | Ser | Tyr |
| 785 | | | | | 790 | | | | | 795 | | | | | 800 |
| Glu | Ile | Arg | Met | Ser | Lys | Ser | Leu | Gln | Asn | Ile | Gln | Asp | Asp | Phe | Asn |
| | | | | 805 | | | | | 810 | | | | | 815 | |
| Asn | Ala | Ile | Leu | Val | Asn | Thr | Ser | Lys | Arg | Asn | Pro | Gln | Gln | Ala | Gly |
| | | | 820 | | | | | 825 | | | | | 830 | | |
| Ile | Arg | Glu | Ile | Phe | Thr | Phe | Ser | Pro | Gln | Ile | Ser | Thr | Asn | Gly | Pro |
| | 835 | | | | | | 840 | | | | | 845 | | | |
| Glu | His | Gln | Pro | Asn | Gly | Glu | Thr | His | Glu | Ser | His | Arg | Ile | Tyr | Val |
| | 850 | | | | | 855 | | | | | 860 | | | | |
| Ala | Ile | Arg | Ala | Met | Asp | Arg | Asn | Ser | Leu | Gln | Ser | Ala | Val | Ser | Asn |
| 865 | | | | | 870 | | | | | 875 | | | | | 880 |
| Ile | Ala | Gln | Ala | Pro | Leu | Phe | Ile | Pro | Pro | Asn | Ser | Asp | Pro | Val | Pro |
| | | | | 885 | | | | | 890 | | | | | 895 | |

Ala Arg Asp Tyr Leu Ile Leu Lys Gly Val Leu Thr Ala Met Gly Leu
 900 905 910
 Ile Gly Ile Ile Cys Leu Ile Ile Val Val Thr His His Thr Leu Ser
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 930 935 940

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 <213> Homo sapien

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 cagcgtgggg agtgctggtg tgtgaacccc aacaccggga agctgatcca gggagccccc 420
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 gtgcacacccc cagcggat 498

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 <212> DNA
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<400> 164

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gctcaagaca cctgggaaga aaaagaaaagg caagcccggg aaacgcaagg agcaggaaaa      720
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<210> 165

<211> 177

<212> PRT

<213> Homo sapien

<400> 165

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35     40     45
Lys Ser Ile Gln Asp Leu Arg Arg Arg Phe Phe Leu His His Leu Ile
50     55     60
Ala Glu Ile His Thr Ala Glu Ile Arg Ala Thr Ser Glu Val Ser Pro
65     70     75     80
Asn Ser Lys Pro Ser Pro Asn Thr Lys Asn His Pro Val Arg Phe Gly
85     90     95
Ser Asp Asp Glu Gly Arg Tyr Leu Thr Gln Glu Thr Asn Lys Val Glu
100    105    110
Thr Tyr Lys Glu Gln Pro Leu Lys Thr Pro Gly Lys Lys Lys Lys Gly
115    120    125
Lys Pro Gly Lys Arg Lys Glu Gln Glu Lys Lys Lys Arg Arg Thr Arg
130    135    140
Ser Ala Trp Leu Asp Ser Gly Val Thr Gly Ser Gly Leu Glu Gly Asp
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165    170    175
His

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<210> 166
 <211> 177
 <212> PRT
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<400> 166
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 35 40 45
 Lys Ser Ile Gln Asp Leu Arg Arg Arg Phe Phe Leu His His Leu Ile
 50 55 60
 Ala Glu Ile His Thr Ala Glu Ile Arg Ala Thr Ser Glu Val Ser Pro
 65 70 75 80
 Asn Ser Lys Pro Ser Pro Asn Thr Lys Asn His Pro Val Arg Phe Gly
 85 90 95
 Ser Asp Asp Glu Gly Arg Tyr Leu Thr Gln Glu Thr Asn Lys Val Glu
 100 105 110
 Thr Tyr Lys Glu Gln Pro Leu Lys Thr Pro Gly Lys Lys Lys Lys Gly
 115 120 125
 Lys Pro Gly Lys Arg Lys Glu Gln Glu Lys Lys Lys Arg Arg Thr Arg
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 165 170 175
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 <212> DNA
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 <213> Homo sapien

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 taccaagaga agagtatttt tcagaaatat aaagatttta atacctgccca catggaaagc 360

| | | | | | | |
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| ctgggatggg | gcacatggag | atgatccata | caccctacaa | tacagagggg | gtggaaaaga | 480 |
| gggaaaatac | attcattttca | cacctaattt | cctactgaat | gataacttaa | cagctggcta | 540 |
| cggatcacga | ggccgagtg | ttgtccatga | atgggcccac | ctccgttggg | gtgtgttcga | 600 |
| tgagtataac | aatgacaaac | ctttctacat | aaatgggcaa | aatcaaatta | aagtgacaag | 660 |
| gtgttcacat | gacatcacag | gcatttttgt | gtgtgaaaaa | ggtccttgcc | cccaagaaaa | 720 |
| ctgtattatt | agtaagcttt | ttaaagaagg | atgcaccttt | atctacaata | gcacccaaaa | 780 |
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<210> 169

<211> 592

<212> PRT

<213> Homo sapien

<400> 169

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| Met | Thr | Gln | Arg | Ser | Ile | Ala | Gly | Pro | Ile | Cys | Asn | Leu | Lys | Phe | Val |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Thr | Leu | Leu | Val | Ala | Leu | Ser | Ser | Glu | Leu | Pro | Phe | Leu | Gly | Ala | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Val | Gln | Leu | Gln | Asp | Asn | Gly | Tyr | Asn | Gly | Leu | Leu | Ile | Ala | Ile | Asn |
| | | | 35 | | | | 40 | | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gln | Val | Pro | Glu | Asn | Gln | Asn | Leu | Ile | Ser | Asn | Ile | Lys | Glu | Met |
| 50 | | | | | | 55 | | | | | 60 | | | | |
| Ile | Thr | Glu | Ala | Ser | Phe | Tyr | Leu | Phe | Asn | Ala | Thr | Lys | Arg | Arg | Val |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Phe | Phe | Arg | Asn | Ile | Lys | Ile | Leu | Ile | Pro | Ala | Thr | Trp | Lys | Ala | Asn |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asn | Asn | Ser | Lys | Ile | Lys | Gln | Glu | Ser | Tyr | Glu | Lys | Ala | Asn | Val | Ile |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Val | Thr | Asp | Trp | Tyr | Gly | Ala | His | Gly | Asp | Asp | Pro | Tyr | Thr | Leu | Gln |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Tyr | Arg | Gly | Cys | Gly | Lys | Glu | Gly | Lys | Tyr | Ile | His | Phe | Thr | Pro | Asn |
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| Phe | Leu | Leu | Asn | Asp | Asn | Leu | Thr | Ala | Gly | Tyr | Gly | Ser | Arg | Gly | Arg |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Val | Phe | Val | His | Glu | Trp | Ala | His | Leu | Arg | Trp | Gly | Val | Phe | Asp | Glu |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Tyr | Asn | Asn | Asp | Lys | Pro | Phe | Tyr | Ile | Asn | Gly | Gln | Asn | Gln | Ile | Lys |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Val | Thr | Arg | Cys | Ser | Ser | Asp | Ile | Thr | Gly | Ile | Phe | Val | Cys | Glu | Lys |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Gly | Pro | Cys | Pro | Gln | Glu | Asn | Cys | Ile | Ile | Ser | Lys | Leu | Phe | Lys | Glu |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Gly | Cys | Thr | Phe | Ile | Tyr | Asn | Ser | Thr | Gln | Asn | Ala | Thr | Ala | Ser | Ile |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Met | Phe | Met | Gln | Ser | Leu | Ser | Ser | Val | Val | Glu | Phe | Cys | Asn | Ala | Ser |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Thr | His | Asn | Gln | Glu | Ala | Pro | Asn | Leu | Gln | Asn | Gln | Met | Cys | Ser | Leu |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Arg | Ser | Ala | Trp | Asp | Val | Ile | Thr | Asp | Ser | Ala | Asp | Phe | His | His | Ser |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Phe | Pro | Met | Asn | Gly | Thr | Glu | Leu | Pro | Pro | Pro | Pro | Thr | Phe | Ser | Leu |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Val | Glu | Ala | Gly | Asp | Lys | Val | Val | Cys | Leu | Val | Leu | Asp | Val | Ser | Ser |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| Lys | Met | Ala | Glu | Ala | Asp | Arg | Leu | Leu | Gln | Leu | Gln | Gln | Ala | Ala | Glu |
| | | | | 325 | | | | | 330 | | | | | 335 | |
| Phe | Tyr | Leu | Met | Gln | Ile | Val | Glu | Ile | His | Thr | Phe | Val | Gly | Ile | Ala |
| | | | 340 | | | | | 345 | | | | | 350 | | |
| Ser | Phe | Asp | Ser | Lys | Gly | Glu | Ile | Arg | Ala | Gln | Leu | His | Gln | Ile | Asn |
| | | 355 | | | | | 360 | | | | | 365 | | | |
| Ser | Asn | Asp | Asp | Arg | Lys | Leu | Leu | Val | Ser | Tyr | Leu | Pro | Thr | Thr | Val |
| | | | | | | 375 | | | | | 380 | | | | |
| Ser | Ala | Lys | Thr | Asp | Ile | Ser | Ile | Cys | Ser | Gly | Leu | Lys | Lys | Gly | Phe |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 |
| Glu | Val | Val | Glu | Lys | Leu | Asn | Gly | Lys | Ala | Tyr | Gly | Ser | Val | Met | Ile |
| | | | | 405 | | | | | 410 | | | | | 415 | |
| Leu | Val | Thr | Ser | Gly | Asp | Asp | Lys | Leu | Leu | Gly | Asn | Cys | Leu | Pro | Thr |
| | | | 420 | | | | | 425 | | | | | 430 | | |
| Val | Leu | Ser | Ser | Gly | Ser | Thr | Ile | His | Ser | Ile | Ala | Leu | Gly | Ser | Ser |
| | | 435 | | | | | | 440 | | | | | 445 | | |
| Ala | Ala | Pro | Asn | Leu | Glu | Glu | Leu | Ser | Arg | Leu | Thr | Gly | Gly | Leu | Lys |
| | 450 | | | | | 455 | | | | | 460 | | | | |
| Phe | Phe | Val | Pro | Asp | Ile | Ser | Asn | Ser | Asn | Ser | Met | Ile | Asp | Ala | Phe |
| 465 | | | | | 470 | | | | | 475 | | | | | 480 |

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[illegible]

<211> 791

<212> PRT

<213> Homo sapien

<400> 170

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| Thr | Leu | Leu | Val | Ala | Leu | Ser | Ser | Glu | Leu | Pro | Phe | Leu | Gly | Ala | Gly |
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| Val | Gln | Leu | Gln | Asp | Asn | Gly | Tyr | Asn | Gly | Leu | Leu | Ile | Ala | Ile | Asn |
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| Pro | Gln | Val | Pro | Glu | Asn | Gln | Asn | Leu | Ile | Ser | Asn | Ile | Lys | Glu | Met |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Ile 65 | Thr | Glu | Ala | Ser | Phe | Tyr | Leu | Phe | Asn | Ala | Thr | Lys | Arg | Arg | Val |
| | | | | | 70 | | | | | 75 | | | | | 80 |
| Phe | Phe | Arg | Asn | Ile | Lys | Ile | Leu | Ile | Pro | Ala | Thr | Trp | Lys | Ala | Asn |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Asn | Asn | Ser | Lys | Ile | Lys | Gln | Glu | Ser | Tyr | Glu | Lys | Ala | Asn | Val | Ile |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Val | Thr | Asp | Trp | Tyr | Gly | Ala | His | Gly | Asp | Asp | Pro | Tyr | Thr | Leu | Gln |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Tyr | Arg | Gly | Cys | Gly | Lys | Glu | Gly | Lys | Tyr | Ile | His | Phe | Thr | Pro | Asn |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Phe 145 | Leu | Leu | Asn | Asp | Asn | Leu | Thr | Ala | Gly | Tyr | Gly | Ser | Arg | Gly | Arg |
| | | | | | 150 | | | | | 155 | | | | | 160 |
| Val | Phe | Val | His | Glu | Trp | Ala | His | Leu | Arg | Trp | Gly | Val | Phe | Asp | Glu |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Tyr | Asn | Asn | Asp | Lys | Pro | Phe | Tyr | Ile | Asn | Gly | Gln | Asn | Gln | Ile | Lys |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Val | Thr | Arg | Cys | Ser | Ser | Asp | Ile | Thr | Gly | Ile | Phe | Val | Cys | Glu | Lys |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Gly | Pro | Cys | Pro | Gln | Glu | Asn | Cys | Ile | Ile | Ser | Lys | Leu | Phe | Lys | Glu |
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| Gly 225 | Cys | Thr | Phe | Ile | Tyr | Asn | Ser | Thr | Gln | Asn | Ala | Thr | Ala | Ser | Ile |
| | | | | | 230 | | | | | 235 | | | | | 240 |
| Met | Phe | Met | Gln | Ser | Leu | Ser | Ser | Val | Val | Glu | Phe | Cys | Asn | Ala | Ser |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Thr | His | Asn | Gln | Glu | Ala | Pro | Asn | Leu | Gln | Asn | Gln | Met | Cys | Ser | Leu |

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 Arg Ser Ala Trp Asp Val Ile Thr Asp Ser Ala Asp Phe His His Ser
 275 280 285
 Phe Pro Met Asn Gly Thr Glu Leu Pro Pro Pro Pro Thr Phe Ser Leu
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 Val Glu Ala Gly Asp Lys Val Val Cys Leu Val Leu Asp Val Ser Ser
 305 310 315 320
 Lys Met Ala Glu Ala Asp Arg Leu Leu Gln Leu Gln Gln Ala Ala Glu
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 Phe Tyr Leu Met Gln Ile Val Glu Ile His Thr Phe Val Gly Ile Ala
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 Ser Phe Asp Ser Lys Gly Glu Ile Arg Ala Gln Leu His Gln Ile Asn
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 Ser Asn Asp Asp Arg Lys Leu Leu Val Ser Tyr Leu Pro Thr Thr Val
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 Ser Ala Lys Thr Asp Ile Ser Ile Cys Ser Gly Leu Lys Lys Gly Phe
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 Glu Val Val Glu Lys Leu Asn Gly Lys Ala Tyr Gly Ser Val Met Ile
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 Val Leu Ser Ser Gly Ser Thr Ile His Ser Ile Ala Leu Gly Ser Ser
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 Phe Phe Val Pro Asp Ile Ser Asn Ser Asn Ser Met Ile Asp Ala Phe
 465 470 475 480
 Ser Arg Ile Ser Ser Gly Thr Gly Asp Ile Phe Gln Gln His Ile Gln
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 Leu Glu Ser Thr Gly Glu Asn Val Lys Pro His His Gln Leu Lys Asn
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 Gly Arg Lys Tyr Tyr Thr Asn Asn Phe Ile Thr Asn Leu Thr Phe Arg
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 Val Thr Ser Arg Ala Ser Asn Ser Ala Val Pro Pro Ala Thr Val Glu
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 Ala Phe Val Glu Arg Asp Ser Leu His Phe Pro His Pro Val Met Ile
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 Tyr Ala Asn Val Lys Gln Gly Phe Tyr Pro Ile Leu Asn Ala Thr Val
 625 630 635 640
 Thr Ala Thr Val Glu Pro Glu Thr Gly Asp Pro Val Thr Leu Arg Leu
 645 650 655
 Leu Asp Asp Gly Ala Gly Ala Asp Val Ile Lys Asn Asp Gly Ile Tyr
 660 665 670
 Ser Arg Tyr Phe Phe Ser Phe Ala Ala Asn Gly Arg Tyr Ser Leu Lys
 675 680 685
 Val His Val Asn His Ser Pro Ser Ile Ser Thr Pro Ala His Ser Ile

690 695 700
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 Ile Gln Met Asn Ala Pro Arg Lys Ser Val Gly Arg Asn Glu Glu Glu
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 Arg Lys Trp Gly Phe Ser Arg Val Ser Ser Gly Gly Ser Phe Ser Val
 740 745 750
 Leu Gly Val Pro Ala Gly Pro His Pro Asp Val Phe Pro Pro Cys Lys
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<400> 171

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| tgagaagggt | tctctcat | ctagaaagaa | gcgcttaaga | tgtggcagcc | cctcttcttc | 180 |
| aagtggctct | tgctctgtt | ccctgggagt | tctcaaattg | ctgcagcagc | ctccaccag | 240 |
| cctgaggatg | acatcaatac | acagaggaag | aagagtcagg | aaaagatgag | agaagttaca | 300 |
| gactctcctg | ggcgaccccg | agagcttacc | attcctcaga | cttcttcaca | tggtgctaac | 360 |
| agatttggtc | ctaaaagtaa | agctctagag | gccgtcaa | at | aggcaataga | 420 |
| caccatattg | attctgcaca | tggtttaca | aatgaggagc | aggttggtg | gacctccga | 480 |
| agcaagattg | agcaattccc | atcgaccaga | gttggtccga | ccagccttgg | aaaggtcact | 540 |
| caattggact | atgttgac | ctatcttatt | cattttccag | tgtctgtaaa | gccaggtgag | 600 |
| gaagtgatcc | caaaagatga | aaatggaaaa | atactatttg | acacagtggg | tctctgtgcc | 660 |
| acatgggagg | ccatggagaa | gtgtaaatg | gcaggattgg | ccaagtccat | cggggtgtcc | 720 |
| aacttcaacc | acaggtgct | ggagatgatc | ctcaacaagc | cagggtcaa | gtacaagcct | 780 |
| gtctgcaacc | aggtggaatg | tcattccttac | ttcaaccaga | gaaaactgct | ggatttctgc | 840 |
| aagtcaaaag | acattgttct | ggttgccctat | agtgtctctg | gatcccatcg | agaagaacca | 900 |
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| gtcctggcca | agagctacaa | tgagcagcgc | atcagacaga | acgtgcaggt | gtttgaattc | 1080 |
| cagttgactt | cagaggagat | gaaagccata | gatggcctaa | acagaaatgt | gcgatatttg | 1140 |
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| gggcattgca | tgaggtctgc | cagaaggccc | tgcgtgtgga | tggtgacaca | gaggatggct | 1260 |
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| aagctacagc | taagcccatc | ggccggaaaa | gaaagacaat | aattttgttt | ttcattttga | 1380 |
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<400> 172

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 Ser Pro Gly Arg Pro Arg Glu Leu Thr Ile Pro Gln Thr Ser Ser His
 50 55 60
 Gly Ala Asn Arg Phe Val Pro Lys Ser Lys Ala Leu Glu Ala Val Lys
 65 70 75 80
 Leu Ala Ile Glu Ala Gly Phe His His Ile Asp Ser Ala His Val Tyr
 85 90 95
 Asn Asn Glu Glu Gln Val Gly Leu Ala Ile Arg Ser Lys Ile Ala Asp
 100 105 110
 Gly Ser Val Lys Arg Glu Asp Ile Phe Tyr Thr Ser Lys Leu Trp Ser
 115 120 125
 Asn Ser His Arg Pro Glu Leu Val Arg Pro Ala Leu Glu Arg Ser Leu
 130 135 140
 Lys Asn Leu Gln Leu Asp Tyr Val Asp Leu Tyr Leu Ile His Phe Pro
 145 150 155 160
 Val Ser Val Lys Pro Gly Glu Glu Val Ile Pro Lys Asp Glu Asn Gly
 165 170 175
 Lys Ile Leu Phe Asp Thr Val Asp Leu Cys Ala Thr Trp Glu Ala Met
 180 185 190
 Glu Lys Cys Lys Asp Ala Gly Leu Ala Lys Ser Ile Gly Val Ser Asn
 195 200 205
 Phe Asn His Arg Leu Leu Glu Met Ile Leu Asn Lys Pro Gly Leu Lys
 210 215 220
 Tyr Lys Pro Val Cys Asn Gln Val Glu Cys His Pro Tyr Phe Asn Gln
 225 230 235 240
 Arg Lys Leu Leu Asp Phe Cys Lys Ser Lys Asp Ile Val Leu Val Ala
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 Tyr Ser Ala Leu Gly Ser His Arg Glu Glu Pro Trp Val Asp Pro Asn
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 Ser Pro Val Leu Leu Glu Asp Pro Val Leu Cys Ala Leu Ala Lys Lys
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 Gly Val Val Val Leu Ala Lys Ser Tyr Asn Glu Gln Arg Ile Arg Gln
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<212> DNA

<213> Homo sapiens

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Cys Gly Leu Ala Cys Glu Arg Cys Arg Trp Ile Leu Pro Leu Leu Leu
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65 70 75 80

Leu Gln Ser Ser Asp His Gly Gln Thr Ser Ser Leu Trp Trp Lys Cys
 85 90 95

Ser Gln Glu Gly Gly Gly Ser Gly Ser Tyr Glu Glu Gly Cys Gln Ser
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Leu Met Glu Tyr Ala Trp Gly Arg Ala Ala Ala Ala Met Leu Phe Cys
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Gly Phe Ile Ile Leu Val Ile Cys Phe Ile Leu Ser Phe Phe Ala Leu
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Cys Gly Pro Gln Met Leu Val Phe Leu Arg Val Ile Gly Gly Leu Leu
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Ala Leu Ala Ala Val Phe Gln Ile Ile Ser Leu Val Ile Tyr Pro Val
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Lys Tyr Thr Gln Thr Phe Thr Leu His Ala Asn Pro Ala Val Thr Tyr
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aagcccagta cgtacaattg tgttgggtgt ggggtggtctc caaggccacg ctgctctctg 3480
aattgatttt ttgagttttg gnttgnaaga tgatcacagn catgttacac tgatcttnaa 3540
ggacatatnt tataaccctt taaaaaaaaa atcccttgcc tcattcttat ttcgagatga 3600
atttcgatac agactagatg tctttctgaa gatcaattag acattntgaa aatgatttaa 3660
agtgttttcc ttaatgttct ctgaaaacaa gtttcttttg tagttttaac caaaaaagtg 3720
ccctttttgt cactggtttc tcctagcatt catgattttt ttttcacaca atgaattaaa 3780
attgctaaaa tcatggactg gctttctggg tggatttcag gtaagatgtg ttaaggcca 3840
gagcttttct cagtatttga tttttttccc caatatttga ttttttaaaa atatacacat 3900
aggagctgca tttaaaacct gctggtttaa attctgtcan atttcacttc tagcctttta 3960
gtatggcnaa tcanaattta cttttactta agcatttcta atttggagta tctgggtacta 4020
gctaagaaat aattcnataa ttgagttttg tactcncaa anatgggtca ttcctcatgn 4080
ataatgtnc cccaatgcag cttcattttc caganacctt gacgcaggat aaattttttc 4140
atcatttagg tccccaaaaa aaaaaaaaaa aaaaaaaaaa a 4181

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<210> 176

<211> 579

<212> PRT

<213> Homo sapiens

<400> 176

Met Asn Lys Leu Tyr Ile Gly Asn Leu Ser Glu Asn Ala Ala Pro Ser
5 10 15

Asp Leu Glu Ser Ile Phe Lys Asp Ala Lys Ile Pro Val Ser Gly Pro
20 25 30

Phe Leu Val Lys Thr Gly Tyr Ala Phe Val Asp Cys Pro Asp Glu Ser
35 40 45

Trp Ala Leu Lys Ala Ile Glu Ala Leu Ser Gly Lys Ile Glu Leu His
50 55 60

Gly Lys Pro Ile Glu Val Glu His Ser Val Pro Lys Arg Gln Arg Ile
65 70 75 80

Arg Lys Leu Gln Ile Arg Asn Ile Pro Pro His Leu Gln Trp Glu Val
85 90 95

Leu Asp Ser Leu Leu Val Gln Tyr Gly Val Val Glu Ser Cys Glu Gln
100 105 110

Val Asn Thr Asp Ser Glu Thr Ala Val Val Asn Val Thr Tyr Ser Ser
115 120 125

Lys Asp Gln Ala Arg Gln Ala Leu Asp Lys Leu Asn Gly Phe Gln Leu
130 135 140

Glu Asn Phe Thr Leu Lys Val Ala Tyr Ile Pro Asp Glu Met Ala Ala
145 150 155 160

Gln Gln Asn Pro Leu Gln Gln Pro Arg Gly Arg Arg Gly Leu Gly Gln
165 170 175

Arg Gly Ser Ser Arg Gln Gly Ser Pro Gly Ser Val Ser Lys Gln Lys
180 185 190

Pro Cys Asp Leu Pro Leu Arg Leu Leu Val Pro Thr Gln Phe Val Gly
195 200 205

Ala Ile Ile Gly Lys Glu Gly Ala Thr Ile Arg Asn Ile Thr Lys Gln
210 215 220

Thr Gln Ser Lys Ile Asp Val His Arg Lys Glu Asn Ala Gly Ala Ala
225 230 235 240

Glu Lys Ser Ile Thr Ile Leu Ser Thr Pro Glu Gly Thr Ser Ala Ala
245 250 255

Cys Lys Ser Ile Leu Glu Ile Met His Lys Glu Ala Gln Asp Ile Lys
260 265 270

Phe Thr Glu Glu Ile Pro Leu Lys Ile Leu Ala His Asn Asn Phe Val
 275 280 285
 Gly Arg Leu Ile Gly Lys Glu Gly Arg Asn Leu Lys Lys Ile Glu Gln
 290 295 300
 Asp Thr Asp Thr Lys Ile Thr Ile Ser Pro Leu Gln Glu Leu Thr Leu
 305 310 315 320
 Tyr Asn Pro Glu Arg Thr Ile Thr Val Lys Gly Asn Val Glu Thr Cys
 325 330 335
 Ala Lys Ala Glu Glu Glu Ile Met Lys Lys Ile Arg Glu Ser Tyr Glu
 340 345 350
 Asn Asp Ile Ala Ser Met Asn Leu Gln Ala His Leu Ile Pro Gly Leu
 355 360 365
 Asn Leu Asn Ala Leu Gly Leu Phe Pro Pro Thr Ser Gly Met Pro Pro
 370 375 380
 Pro Thr Ser Gly Pro Pro Ser Ala Met Thr Pro Pro Tyr Pro Gln Phe
 385 390 395 400
 Glu Gln Ser Glu Thr Glu Thr Val His Gln Phe Ile Pro Ala Leu Ser
 405 410 415
 Val Gly Ala Ile Ile Gly Lys Gln Gly Gln His Ile Lys Gln Leu Ser
 420 425 430
 Arg Phe Ala Gly Ala Ser Ile Lys Ile Ala Pro Ala Glu Ala Pro Asp
 435 440 445
 Ala Lys Val Arg Met Val Ile Ile Thr Gly Pro Pro Glu Ala Gln Phe
 450 455 460
 Lys Ala Gln Gly Arg Ile Tyr Gly Lys Ile Lys Glu Glu Asn Phe Val
 465 470 475 480
 Ser Pro Lys Glu Glu Val Lys Leu Glu Ala His Ile Arg Val Pro Ser
 485 490 495
 Phe Ala Ala Gly Arg Val Ile Gly Lys Gly Gly Lys Thr Val Asn Glu
 500 505 510
 Leu Gln Asn Leu Ser Ser Ala Glu Val Val Val Pro Arg Asp Gln Thr
 515 520 525
 Pro Asp Glu Asn Asp Gln Val Val Val Lys Ile Thr Gly His Phe Tyr
 530 535 540
 Ala Cys Gln Val Ala Gln Arg Lys Ile Gln Glu Ile Leu Thr Gln Val
 545 550 555 560

Lys Gln His Gln Gln Gln Lys Ala Leu Gln Ser Gly Pro Pro Gln Ser
 565 570 575

Arg Arg Lys

<210> 177
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 177
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 agatccaaac aaatacacat tctgtgtttt agctcagtgt tttctaaaaa aagaaactgc 120
 cacacagcaa aaaattgttt actttgttgg acaaaccaaa tcagttctca aaaaatgacc 180
 ggtgcttata aaaagttata aatatcgagt agctctaaaa caaacacact gaccaagagg 240
 gaagtgaagt tgtgcttagt atttacattg gatgccagtt ttgtaatcac tgacttatgt 300
 gcaaaactgg gcagaaattc tataaactct ttgctgtttt tgatacctgc tttttgtttc 360
 attttgtttt gttttgtaaa aatgataaaa cttcagaaaa t 401

<210> 178
 <211> 561
 <212> DNA
 <213> Homo sapiens

<400> 178
 acgcctttca aggggtgtacg caaagcactc attgataccc ttttggtatgg ctatgaaaca 60
 gcccgtatg ggacaggggt ctttggccag aatgagtacc tacgctatca ggaggccctg 120
 agtgagctgg cactgcggt taaagcacga attgggagct ctcagcgaca tcaccagtca 180
 gcagccaaag acctaaacta gtcccctgag gtctcccca caaccatcca ggtgacatac 240
 ctcccctcca gtcagaagag taaacgtgcc aagcacttcc ttgaattgaa gagctttaag 300
 gataactata acacattgga gagtactctg tgacggagct gaaggactct tgccgtagat 360
 taagccagtc agttgcaatg tgcaagacag gctgcttgcc gggccgcctt cggaacatct 420
 ggcccagcag gccagactg tatccatcca agttcccgtt gtatccagag ttcttagagc 480
 ttgtgtctaa agggtaatc cccaaccctt ccttatgagc atttttagaa cattggctaa 540
 gactattttc cccagtagc g 561

<210> 179
 <211> 521
 <212> DNA
 <213> Homo sapiens

<400> 179
 cccaacgcgt ttgcaaatat tcccctggta gcctacttcc ttacccccga atatttgtaa 60
 gatcgagcaa tggcttcagg acatgggttc tcttctctg tgatcattca agtgotcact 120
 gcatgaagac tggcttgtct cagtgtttca acctcaccag ggctgtctct tgggtccacac 180
 ctcgctccct gttagtgccg tatgacagcc cccatcaaat gaccttggcc aagtcacggt 240
 ttctctgtgg tcaaggttgg ttggctgatt ggtggaaaagt aggggtggacc aaaggaggcc 300
 acgtgagcag tcagcaccag ttctgcacca gcagcgcctc cgtcctagtg ggtgttccctg 360
 tttctcctgg ccctgggtgg gctagggcct gattcgggaa gatgcctttg caggagggg 420
 aggataagtg ggatctacca attgattctg gcaaaaacaat ttctaagatt tttttgcttt 480
 atgtgggaaa cagatctaaa tctcatttta tgctgtattt t 521

<210> 180
 <211> 417
 <212> DNA
 <213> Homo sapiens

<400> 180
 ggtggaattc gccgaagatg gcggaggtgc aggtcctggt gcttgatggt cgaggccatc 60
 tcctgggccg cctggcgccg atcgtggcta aacagggtact gctggggccg aaggtggtgg 120
 tcgtacgctg tgaaggcatc aacatttctg gcaatttcta cagaaacaag ttgaagtacc 180
 tggttttctt ccgcaagcgg atgaacacca acccttcccc aggccctac cacttccggg 240
 cccccagccg catcttctgg cggaccgtgc gaggtatgct gcccacaaaa accaagcgag 300
 gccaggccgc tctggaccgt ctcaaggtgt ttgacggcat cccaccgccc tacgacaaga 360
 aaaagcggat ggtggttctt gctgccctca aggtcgtgcg tctgaagcct acaagaa 417

<210> 181
 <211> 283
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (35)
 <223> n=A,T,C or G

<400> 181
 gatttcttct aaataggatg taaaacttct ttcanattac tcttcctcag tcctgcctgc 60
 caagaactca agtgaactg tgataaaata acctttccca ggtatattgg caggtatgtg 120
 tgtaatctca gaatacacag gtgacataga tatgatatga caactggtaa tggtggattc 180
 atttacattg tttaacttct tatgaccagg ccttaaggga aggtcagttt tttaaaaaac 240
 caagtagtgt cttcctacct atctccagat acatgtcaaa aaa 283

<210> 182
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 182
 atattcttgc tgcttatgca gctgacattg ttgccctccc taaagcaacc aagtagcctt 60
 tatttcccac agtgaaagaa aacgctggcc tatcagttac attacaaaag gcagatttca 120
 agaggattga gtaagtagtt ggatggcctt cataaaaaaca agaattcaag aagaggattc 180
 atgctttaag aaacatttgt tatacatccc tcacaaatta tacctgggat aaaaactatg 240
 tagcaggcag tgtgttttcc ttccatgtct ctctgcacta cctgcagtgt gtcctctgag 300
 gctgcaagtc tgccttatct gaattcccag cagaagcact aagaagctcc accctatcac 360
 ctagcagata aaactatggg gaaaacttaa atctgtgcat a 401

<210> 183
 <211> 366
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (325)
 <223> n=A,T,C or G

CCCTTCTTCT AAATAGGATG TAAAACCTCT TTCAATTAC TCTTCCTCAG TCCTGCCTGC 60
 CAAGAACTCA AGTGAAGTGT TGATAAAATA ACCTTTCCCA GGTATATTGG CAGGTATGTG 120
 TGTAATCTCA GAATACACAG GTGACATAGA TATGATATGA CAACTGGTAA TGGTGGATTCT 180
 ATTTACATTG TTTAACCCTTCT TATGACCAGG CTTAAGGGA AGGTCAGTTT TTTAAAAAAC 240
 CAAGTAGTGT CTTCTTACCT ATCTCCAGAT ACATGTCAAA AAA 283


```

tggcctgcaa gccaggccat ccctgggccc cacagacgag ctccgagcca ggtcaggcctt 180
cggaggccac aagctcagcc tcaggcccag gcactgattg tggcagaggg gccactaccc 240
aaggtctagc taggcccacg acctagttac ccagacagtg agaagcccct ggaaggcaga 300
aaagttggga gcatggcaga caggggaagg aaacattttc agggaaaaga catgtatcac 360
atgtcttcag aagcaagtca ggtttcatgt aaccgagtgt cctcttgctg gtccaaaagt 420
agcccagggc tgtagcacag gcttcacagt gattttgtgt tcagccgtga gtcacac 477

```

<210> 188

<211> 220

<212> DNA

<213> Homo sapiens

<400> 188

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taaatatggg agatattaat attcctctta gatgaccagt gattccaatt gtcccaagtt 60
ttaaataagt accctgtgag tatgagataa attagtgaca atcagaacaa gtttcagtat 120
cagatgttca agaggaagtt gctattgcat tgattttaat atttgtacat aaacactgat 180
ttttttgagc attattttgt atttgttgta ctttaataacc 220

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<210> 189

<211> 417

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (76)

<223> n=A,T,C or G

<221> unsure

<222> (77)

<223> n=A,T,C or G

<400> 189

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accatcttga cagaggatac atgctcccaa aacgtttgtt accacactta aaaatcactg 60
ccatcattaa gcacnnttt caaaattata gccattcatg atttactttt tccagatgac 120
tatcattatt ctagtccttt gaatttgtaa ggggaaaaaa aacaaaaaca aaaacttacg 180
atgcactttt ctccagcaca tcagatttca aattgaaaat taaagacatg ctatggtaat 240
gcacttgcta gtactacaca ctttgtacaa caaaaaacag aggcaagaaa caacggaaaag 300
agaaaagcct tcctttgttg gcccttaaag tgagtcaaga tctgaaatgt agagatgatc 360
tctgacgata cctgtatgtt cttattgtgt aaataaaaatt gctggtatga aatgaca 417

```

<210> 190

<211> 497

<212> DNA

<213> Homo sapiens

<400> 190

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gcactgcggc gctctcccgt cccgcggtgg ttgctgctgc tgccgctgct gctgggcctg 60
aacgcaggag ctgtcattga ctggcccaca gaggagggca aggaagtatg ggattatgtg 120
acggtccgca aggatgccta catgttctgg tggctctatt atgccacaa ctctgcaag 180
aacttctcag aactgcccct ggatcatgtg cttcagggcg gtccaggcgg ttctagcact 240
ggatttgga aacttgagga aattgggccc cttgacagtg atctcaaacc acggaaaacc 300
acctggctcc aggtgccag tctcctatgt gtggataatc ccgtgggcac tgggttcagt 360
tatgtgaatg gtagtggtgc ctatgccaa gacctggcta tgggtggctc agacatgatg 420
gttctcctga agaccttctt cagttgccac aaagaattcc agacagttcc attctacatt 480

```

ttctcagagt cctatgg

497

<210> 191

<211> 175

<212> DNA

<213> Homo sapiens

<400> 191

atgttgaata ttttgcttat taactttggt tattgtcttc tccctcgatt agaattattag 60
ctacttgagt acaaggattt gagcctgtta cattcactgc tgaatttttag gctcctggaa 120
gatacccagc attcaataga gaccacacaa taaatatatg tcaaataaaa aaaaa 175

<210> 192

<211> 526

<212> DNA

<213> Homo sapiens

<400> 192

agtaaacatt attatTTTTT ttatatttgc aaaggaaaca tatctaattcc ttcctataga 60
aagaacagta ttgctgtaat tccttttctt ttcttctca tttcctctgc cccttaaaag 120
attgaagaaa gagaaacttg tcaactcata tccacgttat ctacgaaagt acataagaat 180
ctatcactaa gtaatgtatc cttcagaatg tgttggttta ccagtgcacac cccatattca 240
tcacaaaatt aaagcaagaa gtccatagta atttatttgc taatagtga tttttaatgc 300
tcagagtttc tgagggtcaaa ttttatcttt tcacttacaa gctctatgat cttaaataat 360
ttacttaatg tattttggtg tattttcctc aaattaatat tgggtgttcaa gactatatct 420
aattcctctg atcactttga gaaacaaact tttattaaat gtaaggcact tttctatgaa 480
ttttaaatat aaaaataaat attgttctga ttattactga aaaaaa 526

<210> 193

<211> 553

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (290)

<223> n=A,T,C or G

<221> unsure

<222> (300)

<223> n=A,T,C or G

<221> unsure

<222> (411)

<223> n=A,T,C or G

<221> unsure

<222> (441)

<223> n=A,T,C or G

<400> 193

tccattgtgg tggaattcgc tctctggtaa aggcgtgcag gtgttgccg cggcctctga 60
gctgggatga gccgtgctcc cgggtggaagc aagggagccc agccggagcc atggccagta 120
cagtggtagc agttggactg accattgctg ctgcaggatt tgcaggccgt tacgttttgc 180
aagccatgaa gcatatggag cctcaagtaa aacaagtttt tcaaagccta ccaaaatctg 240
ccttcagtgg tggctattat agagggtgggt ttgaacccaa aatgacaaan cgggaagcan 300
cattaatact aggtgtaagc cctactgccata ataaaggga aataagagat gctcatcgac 360

```

gaattatgct tttaaatcat cctgacaaag gaggatctcc ttatatagca nccaaaatca 420
atgaagctaa agatttacta naagggtcaag ctaaaaaatg aagtaaagt atgatgaatt 480
ttaagttcgt attagtttat gtatatgagt actaagtttt tataataaaa tgcctcagag 540
ctacaatttt aaa 553

```

```

<210> 194
<211> 320
<212> DNA
<213> Homo sapiens

```

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<400> 194
cccttcccaa tccatcagta aagaccccat ctgccttgct catgccgttt cccaacaggg 60
atgtcacttg atatgagaat ctcaaacttc aatgccttat aagcattcct tcctgtgtcc 120
attaagactc tgataattgt ctccccctca taggaatttc tcccaggaaa gaaatatatc 180
cccatctccg ttccatatca gaactaccgt ccccgatatt cccttcagag agattaaaga 240
ccagaaaaaa gtgagcctct tcatctgcac ctgtaatagt ttcagttcct attttcttcc 300
attgacccat atttatacct 320

```

```

<210> 195
<211> 320
<212> DNA
<213> Homo sapiens

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```

<220>
<221> unsure
<222> (203)
<223> n=A,T,C or G
<221> unsure
<222> (218)
<223> n=A,T,C or G

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<400> 195
aagcatgacc tggggaaatg gtcagacctt gtatttgttt tttggccttg aaagtagcaa 60
gtgaccagaa tctgccatgg caacaggctt taaaaaagac ccttaaaaag acactgtctc 120
aactgtggtg ttgacaccag ccagctctct gtacatttgc tagctttag ttttctaaga 180
ctgagtaaac ttcttatttt tanaaagggg aggtctgntt gtaactttcc ttgtacttaa 240
ttgggtaaaa gtcttttcca caaaccacca tctattttgt gaactttgtt agtcatcttt 300
tatttggtaa attatgaact 320

```

```

<210> 196
<211> 357
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (36)
<223> n=A,T,C or G

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<400> 196
atataaaata atacgaaact ttaaaaagca ttggantgtc agtatgttga atcagtagtt 60
tcactttaac tgtaaacaat ttcttaggac accatttggg ctagtttctg tgtaagtga 120
aatactacaa aaacttattt atactgttct tatgtcattt gttatattca tagatttata 180
tgatgatatg acatctggct aaaaagaaat tattgcaaaa ctaaccacta tgtacttttt 240

```

tataaatact gtatggacaa aaaatggcat tttttatatt aaattgttta gctctggcaa 300
 aaaaaaaaaa ttttaagagc tgggtactaat aaaggattat tatgactgtt aaaaaaa 357

<210> 197
 <211> 565
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (27)
 <223> n=A,T,C or G

<400> 197
 tcagctgagt accatcagga tatttanccc ttttaagtgt gttttgggag tagaaaacta 60
 aagcaacaat acttcctctt gacagctttg attggaatgg gggtattaga tcattcacct 120
 tggtcctaca ctttttagga tgcttgggtga acataacacc acttataatg aacatccctg 180
 gttcctatat tttgggctat gtgggttaga attgttactt gttactgcag cagcagccct 240
 agaaagtaag cccagggtt cagatctaag ttagtccaaa agctaaatga tttaaagtca 300
 agttgtaatg ctaggcataa gcactctata atacattaaa ttataggccg agcaattagg 360
 gaatgtttct gaaacattaa acttgtatct atgtcactaa aattctaaca caaacttaaa 420
 aaatgtgtct catacatatg ctgtactagg cttcatcatg catttctaaa tttgtgtatg 480
 atttgaatat atgaaagaat ttataacaaga gtgttattta aaattattaa aaataaatgt 540
 atataatttg tacctattgt aaaaa 565

<210> 198
 <211> 484
 <212> DNA
 <213> Homo sapiens

<400> 198
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 acatttgaga acagtgttac tctgagcagt tgggccacct tcaccttacc cgacagctga 120
 ctgttggatg tgtccattgt cgccagtttg gctgttgccc ggacaggaca ggacctccat 180
 tgggcgcagc agcagggtggc aggggtgttg cttgaggtgg gtggcagcgt ctggctctcc 240
 tctctggtgc tttctgagag ggtctctaaa gcagagtgtg gttggcctgg gggaaggcag 300
 agcacgtatt tctccctct agtacctctg catttgtgag tgttccctct ggctttctga 360
 agggcagcag actcttgagt atactgcaga ggacatgctt tatcagtagg tcctgagggc 420
 tccagggggt caactgacca agtaacacag aagttggggt atgtggccta tttgggtcgg 480
 aaac 484

<210> 199
 <211> 429
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (77)
 <223> n=A,T,C or G
 <221> unsure
 <222> (88)
 <223> n=A,T,C or G
 <221> unsure

<222> (134)
 <223> n=A,T,C or G
 <221> unsure
 <222> (151)
 <223> n=A,T,C or G
 <221> unsure
 <222> (189)
 <223> n=A,T,C or G
 <221> unsure
 <222> (227)
 <223> n=A,T,C or G
 <221> unsure
 <222> (274)
 <223> n=A,T,C or G
 <221> unsure
 <222> (319)
 <223> n=A,T,C or G

<400> 199
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 tacagtacct ttctcanaca ttttgtanaa ttcatttcgg cagctcacta ggattttgct 120
 gaacattaaa aagngtgata gcgatattag ngccaatcaa atggaaaaaa ggtagtctta 180
 ataaacaana cacaacgttt ttatacaaca tacttttaaaa tattaanaaa actccttaat 240
 attgtttcct attaagtatt attctttggg caanattttc tgatgctttt gattttctct 300
 caatttagca tttgctttng gtttttttct ctatttagca ttctgttaag gcacaaaaac 360
 tatgtactgt atgggaaatg ttgtaaatat taccttttcc acatttttaa cagacaactt 420
 tgaatccaa 429

<210> 200
 <211> 279
 <212> DNA
 <213> Homo sapiens

<400> 200
 gcttttttga ggaattacag ggaagctcct ggaattgtac atggatatct ttatccctag 60
 ggggaaatca aggagctggg caccctaat tctttatgga agtggtttaa actattttta 120
 ttttattaca agtattacta gagtagtggt tctactctaa gatttcaaaa gtgcatttaa 180
 aatcatacat gttcccgctt gcaaatatat tgttattttg gtggagaaaa aaatagtata 240
 ttctacataa aaaattaaag atattaacta agaaaaaaa 279

<210> 201
 <211> 569
 <212> DNA
 <213> Homo sapiens

<400> 201
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 attgttaaag cacacacctg cacaagaagc agtgatgggt gcattttacat ttcctgggtg 120
 cacaaaaaaa aattctcaaa aagcaaggac ttacgctttt tgcaaagcct ttgagaagtt 180
 actggatcat aggaagctta taacaagaat ggaagattct taaataactc actttctttg 240
 gtatccagta acagtagatg ttcaaaatat gtagctgatt aataccagca ttgtgaacgc 300
 tgtacaacct tgtggttatt actaagcaag ttactactag cttctgaaaa gtagcttcat 360
 aattaatgtt atttatacac tgccttccat gaacttttact ttgccctaag ctaatctcca 420
 aaatctgaaa tgctactcca atatcagaaa aaaaggggga ggtggaatta tatttcctgt 480

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|--|
| <400> | 204 | | | | | | |
| agcatctttt | ctacaacggt | aaaattgcag | aagtagctta | tcattaaaaa | acaacaacaa | 60 | |
| caacaataac | aataaatcct | aagtgtaaat | cagttattct | acccctacc | aaggatatca | 120 | |
| gcctgttttt | tccctttttt | ctcctgggaa | taattgtggg | cttcttccca | aatttctaca | 180 | |
| gcctcttttc | tcttctcatg | cttgagcttc | cctgtttgca | cgcatgcgtg | tgcaggactg | 240 | |
| gcttgtgtgc | ttggactcgg | ctccaggtgg | aagcatgctt | tcccttgta | ctgttgga | 300 | |
| aactcaaac | ttcaagccct | aggtgtagcc | attttgtcaa | gtcatcaact | gtatttttgt | 360 | |
| actggcatta | acaaaaaaag | aagataaaat | attgtaccat | taaacttta | taaaacttta | 420 | |
| a | | | | | | 421 | |

<210> 205
 <211> 460
 <212> DNA
 <213> Homo sapiens

<400> 205
 tactctcaca atgaaggacc tggaatgaaa aatctgtgtc taaacaagtc ctcttttagat 60
 tttagtgc aa atccagagcc agcgtcgggt gcctcgagta attctttcat gggtagcctt 120
 ggaaaagctc tcaggagacc tcacctagat gcctattcaa gctttggaca gccatcagat 180
 tgtcagccaa gaggctttta tttgaaagct cattcttccc cagacttgga ctctgggtca 240
 gaggaagatg ggaaagaaa gacagatttt caggaagaaa atcacatttg tacctttaaa 300
 cagacttttag aaaactacag gactccaaat tttcagtctt atgacttgga cacatagact 360
 gaatgagacc aaaggaaaag cttaacatac tacctcaagg tgaactttta tttaaaagag 420
 agagaatctt atgtttttta aatggagtta tgaattttta 460

<210> 206
 <211> 481
 <212> DNA
 <213> Homo sapiens

<400> 206
 tgtggtggaa ttcgggacgc cccagaccc tgactttttc ctgcgtgggc cgtctcctcc 60
 tgcggaagca gtgacctctg acccctgggt accttgcctt tgagtgcctt ttgaacgctg 120
 gtcccgcggt acttggtttt ctcaagctct gtctgtccaa agacgctccg gtcgagggtc 180
 cgctgcctt ggggtggatac ttgaacccca gacgcccctc tgtgtctgtg tgtccggagg 240
 cggccttccc atctgcctgc ccacccggag ctctttccgc cggcgagagg tcccaagccc 300
 acctcccgcc ctcaagtctg cgggtgtcgt ctgggcacgt cctgcacaca caatgcaagt 360
 cctggcctcc gcgcccgcgc gccacgcga gccgtaccgc ccgccaactc tgttatttat 420
 ggtgtgaccc cctggagggt ccctcgcccc accggggcta tttattgttt aatttatttg 480
 t 481

<210> 207
 <211> 605
 <212> DNA
 <213> Homo sapiens

<400> 207
 accctttttg gattcagggc tcctcacaat taaaatgagt gtaatgaaac aaggtagaaaa 60
 tatagaagca tccctttgta tactgttttg ctacttacag tgtacttggc attgctttat 120
 ctactggat tctcacggta ggatttctga gatcttaatc taagctccaa agttgtctac 180
 ttttttgatc ctagggtgct ctttttggtt tacagagcag ggtcacttga tttgctagct 240
 ggtggcagaa ttggcaccat taccaggtc tgactgacca ccagtcagag gcactttatt 300
 tgtatcatga aatgatttga aatcattgta aagcagcgaa gtctgataat gaatgccagc 360
 tttccttggt ctttgataac aaagactcca aatattctgg agaacctgga taaaagtttg 420
 aagggctaga ttgggatttg aagacaaaat ttaggaaat cttacatttt tgcaataaca 480
 aacattaatg aaagcaaaac attataaaaag taattttaat tcaccacata cttatcaatt 540
 tcttgatgct tccaaatgac atctaccaga tatgggtttg tgacatctt tttctgttta 600
 cataa 605

<210> 208
 <211> 655
 <212> DNA
 <213> Homo sapiens

<400> 208

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ggcgttggtc tggattcccg tcgtaactta aagggaact ttcacaatgt ccggagccct 60
tgatgtcctg caaatgaagg aggaggatgt ccttaagttc cttgcagcag gaaccactt 120
aggtggcacc aatcttgact tccagatgga acagtacatc tataaaagga aaagtgatgg 180
catctatata ataaatctca agaggacctg ggagaagctt ctgctggcag ctgctgcaat 240
tgttgccatt gaaaaccctg ctgatgtcag tggtatatcc tccaggaata ctggccagag 300
ggctgtgctg aagtttgctg ctgccactgg agccactcca attgctggcc gcttcaactcc 360
tggaaccttc actaaccaga tccaggcagc cttccgggag ccacggcttc ttgtggttac 420
tgaccccgag gctgaccacc agcctctcac ggaggcatct tatgttaacc tactaccat 480
tgcgctgtgt aacacagatt ctctctgcg ctatgtggac attgccatcc catgcaacaa 540
caagggagct cactcagtgg gtttgatgtg gtggatgctg gctcgggaag ttctgcgcac 600
gcgtggcacc atttcccgtg aacacccatg ggaggtcatg cctgatctgt acttc 655

```

<210> 209

<211> 621

<212> DNA

<213> Homo sapiens

<400> 209

```

catttagaac atggttatca tccaagacta ctctaccctg caacattgaa ctccaagag 60
caaatccaca ttctcttga gttctgcagc ttctgtgtaa atagggcagc tgcgtctat 120
gccgtagaat cacatgatct gaggaccatt catggaagct gctaaatagc ctagtctggg 180
gagcttcca taaagttttg catggagcaa acaaacagga ttaaactagg ttgggtcct 240
tcagccctct aaaagcatag ggcttagcct gcaggcttcc ttgggcttcc tctgtgtgtg 300
tagttttgta aacactatag catctgttaa gatccagtgt ccatggaaac cttccacat 360
gccgtgactc tggactatat cagtttttgg aaagcagggt tcctctgcct gctaacaagc 420
ccacgtggac cagtctgaat gtctttcctt tacacctatg tttttaata gtcaaacctc 480
aagaaacaat ctaaacaagt ttctgttgca tatgtgtttg tgaacttgta ttgtattta 540
gtaggcttct atattgcatt taacttgtt ttgtaactcc tgattcttcc ttttcggata 600
ctattgatga ataaagaaat t

```

621

<210> 210

<211> 533

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (20)

<223> n=A,T,C or G

<221> unsure

<222> (21)

<223> n=A,T,C or G

<221> unsure

<222> (61)

<223> n=A,T,C or G

<400> 210

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cgccttgggg agccggcggn ngagtccggg acgtggagac ccgggggtccc ggcagccggg 60
nggcccgcgg gccaggggtg gggatgcacc gccgcggggt gggagctggc gccatcgcca 120
agaagaaact tgacagaggc aagtataagg agcgaggagc ggtcttggct gaggaccagc 180
tagcccagat gtcaaagcag ttggacatgt tcaagaccaa cctggaggaa tttgccagca 240
aacacaagca ggagatccgg aagaatcctg agttccgtgt gcagttccag gacatgtgtg 300
caaccattgg cgtggatccg ctggcctctg gaaaaggatt ttggtctgag atgctgggag 360

```



```

tgggggactt ctattacgaa ctaggtgtcc aaattatcga agtgtgcctg gcgctgaagc 420
atcggaatgg aggtctgata actttggagg aactacatca acaggtgttg aaggggaagg 480
gcaagttcgc ccaggatgtc agtcaagatg acctgatcag agccatcaag aaa 533

```

```

<210> 211
<211> 451
<212> DNA
<213> Homo sapiens

```

```

<400> 211
ttagcttgag ccgagaacga ggcgagaaag ctggagaccg aggagaccgc ctagagcgga 60
gtgaacgggg aggggaccgt ggggaccggc ttgatcgtgc gcggacacct gctaccaagc 120
ggagcttcag caaggaagtg gaggagcgga gtagagaacg gccctcccag cctgaggggc 180
tgcgcaaggc agctagcctc acggaggatc gggaccgtgg gcgggatgcc gtgaagcgag 240
aagctgccct acccccagtg agccccctga aggcggctct ctctgaggag gagttagaga 300
agaaatccaa ggctatcatt gaggaatata tccatctcaa tgacatgaaa gaggcagtcc 360
agtgcgtgca ggagctggcc tcacctctct tgctcttcat ctttgtacgg catggtgtcg 420
agtctacgct ggagcgcagt gccattgtct g 451

```

```

<210> 212
<211> 471
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (54)
<223> n=A,T,C or G

```

```

<400> 212
gtgattattc ttgatcaggg agaagatcat ttagatttgt tttgcattcc ttanaatgga 60
gggcaacatt ccacagctgc cctggctgtg atgagtgtcc ttgcaggggc cggagtagga 120
gcaactgggt gggggcggaa ttggggttac tcgatgtaag ggattccttg ttgttgtgtt 180
gagatccagt gcagttgtga tttctgtgga tcccagcttg gttccaggaa ttttgtgtga 240
ttggcttaaa tccagttttc aatcttcgac agctgggctg gaacgtgaac tcagtagctg 300
aacctgtctg acccgtcac gttcttggat cctcagaact ctttgcctt gtcggggtgg 360
gggtgggaac tcacgtgggg agcgggtggc gagaaaatgt aaggattctg gaatacatat 420
tccatgggac tttccttccc tctcctgctt cctcttttcc tgctccctaa c 471

```

```

<210> 213
<211> 511
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (27)
<223> n=A,T,C or G
<221> unsure
<222> (63)
<223> n=A,T,C or G
<221> unsure
<222> (337)
<223> n=A,T,C or G

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<221> unsure
 <222> (442)
 <223> n=A,T,C or G

<400> 213
 ctaattagaa acttgctgta ctttttnttt tcttttaggg gtcaaggacc ctcttttatag 60
 ctncattttg cctacaataa attattgcag cagtttgcaa tactaaaata ttttttatag 120
 acttttatatt tttccttttg ataaagggat gctgcatagt agagttgggtg taattaaact 180
 atctcagccg tttccctgct ttcccttctg ctccatatgc ctcatgtcc ttccagggag 240
 ctcttttaat cttaaagttc tacatttcat gctcttagtc aaattctgtt acctttttta 300
 taactcttcc cactgcatat ttccatcttg aattggnggt tctaaattct gaaactgtag 360
 ttgagataca gctattttaa atttctggga gatgtgcac cctcttcttt gtggttgccc 420
 aaggttgttt tgcgtaactg anactccttg atatgcttca gagaatttag gcaaactg 480
 gccatggccg tgggagtact gggagtaaaa t 511

<210> 214
 <211> 521
 <212> DNA
 <213> Homo sapiens

<400> 214
 agcattgcc aataatccct aattttccac taaaaatata atgaaatgat gttaagcttt 60
 ttgaaaagtt taggttaaac ctactgttgt tagattaatg tatttggtgc ttccctttat 120
 ctggaatgtg gcattagctt ttttatttta accctcttta attcttattc aattccatga 180
 cttaagggtg gagagctaaa cactgggatt tttggataac agactgacag ttttgcataa 240
 ttataatcgg cattgtacat agaaaggata tggctacctt ttgttaaate tgcactttct 300
 aaatatcaaa aaagggaat gaagtataaa tcaatttttg tataatctgt ttgaaacatg 360
 agttttattt gcttaatat agggctttgc ccttttctg taagtctctt gggatcctgt 420
 gtagaagctg ttctcattaa acaccaaaca gttaagtcca ttctctggta ctagctacaa 480
 attcggtttc atattctact taacaattta aataaactga a 521

<210> 215
 <211> 381
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (17)
 <223> n=A,T,C or G
 <221> unsure
 <222> (20)
 <223> n=A,T,C or G
 <221> unsure
 <222> (60)
 <223> n=A,T,C or G
 <221> unsure
 <222> (61)
 <223> n=A,T,C or G
 <221> unsure
 <222> (365)
 <223> n=A,T,C or G

<400> 215

CTGTTTATATT TTTCCCTTGTG ATAAAGGGAT GCTGCATAGT AGAGTTGGGTG TAATTAAGT

```

gagcggagag cggaccngtn agagccctga gcagcccccac cgccgccgcc ggcctagttn 60
ncatcacacc ccgggaggag ccgcagctgc cgagccggc cccagtcacc atcacgcaa 120
ccatgagcag cgaggccgag acccagcagc cgcccgccgc ccccccgcc gcccccgccc 180
tcagcgccgc cgacaccaag cccggcacta cgggcagcgg cgaggggagc ggtggcccg 240
gcggcctcac atcgggcgcg cctgccggcg gggacaagaa ggtcatcgca acgaaggttt 300
tgggaacagt aaaatggttc aatgtaagga acggatatgg tttcatcaac aggaatgaca 360
ccaangaaga tgtatttga c                                     381

```

<210> 216

<211> 425

<212> DNA

<213> Homo sapiens

<400> 216

```

ttactaacta ggtcattcaa ggaagtcaag ttaacttaaa catgtcacct aaatgcactt 60
gatggtgttg aaatgtccac cttcttaaat ttttaagatg aacttagttc taaagaagat 120
aacaggccaa tcctgaaggt actccctgtt tgctgcagaa tgtcagatat tttggatgtt 180
gcataagagt cctatttgcc ccagttaatt caacttttgt ctgcctgttt tgtggactgg 240
ctggctctgt tagaactctg tccaaaaagt gcatggaata taacttgtaa agcttccac 300
aattgacaat atatatgcat gtgttttaac caaatccaga aagcttaaac aatagagctg 360
cataatagta tttattaaag aatcacaact gtaaacatga gaataactta aggattctag 420
tttag                                             425

```

<210> 217

<211> 181

<212> DNA

<213> Homo sapiens

<400> 217

```

gagaaaccaa atgatagggt gtagagcctg atgactccaa acaaagccat cccccgcatt 60
cttcctcctt cttctggtgc tacagctcca agggcccttc accttcattg ctgaaatgga 120
actttggctt tttcagtgga agaatatgtt gaaggtttca ttttgttcta gaaaaaaaaa 180
a                                             181

```

<210> 218

<211> 405

<212> DNA

<213> Homo sapiens

<400> 218

```

caggccttcc agttcactga caaacatggg gaagtgtgcc cagctggctg gaaacctggc 60
agtgatacca tcaagcctga tgtccaaaag agcaaagaat atttctccaa gcagaagtga 120
gcgctgggct gtttttagtg caggctgcgg tgggcagcca tgagaacaaa acctcttctg 180
tatttttttt ttccattagt aaaacacaag acttcagatt cagccgaatt gtggtgtctt 240
acaaggcagg ctttccctac agggggtgga gagaccagcc tttcttcctt tggtaggaat 300
ggcctgagtt ggcgttgttg gcaggctact ggtttgtatg atgtattagt agagcaaccc 360
attaatcttt tgtagtttgt attaaacttg aactgagaaa aaaaaa                                     405

```

<210> 219

<211> 216

<212> DNA

<213> Homo sapiens

<220>

<221> unsure
 <222> (207)
 <223> n=A,T,C or G
 <221> unsure
 <222> (210)
 <223> n=A,T,C or G

<400> 219
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 ttaatttacc atgtaaaatt gctgtaaatg ataatgtgta cagattttct gttcaaatat 120
 tcaattgtaa acttcttggt aagactgtta cgtttctatt gcttttgtat gggatattgc 180
 aaaaataaaa aggaaagaac cctcttnaan aaaaaa 216

<210> 220
 <211> 380
 <212> DNA
 <213> Homo sapiens

<400> 220
 cttacaaatt gcccccatgt gtaggggaca cagaaccctt tgagaaaact tagatttttg 60
 tctgtacaaa gtctttgcct ttttccttct tcattttttt ccagtacatt aaatttgtca 120
 atttcatctt tgagggaaac tgattagatg ggttggtgtt gtgttctgat ggagaaaaca 180
 gcacccaag gactcagaag atgattttta cagttcagaa cagatgtgtg caatattggg 240
 gcatgtaata atgttgagtg gcagtcaaaa gtcattgatt ttatcttagt tcttcattac 300
 tgcattgaaa aggaaaacct gtctgagaaa atgcctgaca gtttaattta aaactatggg 360
 gtaagtcttt gacaaaaaaa 380

<210> 221
 <211> 398
 <212> DNA
 <213> Homo sapiens

<400> 221
 ggtagtaag ctgtcgactt tgtaaaaaag ttaaaaatga aaaaaaaagg aaaaatgaat 60
 tgtatattta atgaatgaac atgtacaatt tgccactggg aggaggttcc ttttggttgg 120
 gtgagtctgc aagtgaattt cactgatgtt gatattcatt gtgtgtagtt ttatttcggt 180
 cccagccccg tttcctttta ttttgagct aatgccagct gcgtgtctag ttttgagtgc 240
 agtaaaatag aatcagcaaa tcaactcttat ttttcactct tttccggtat ttttgggtt 300
 gtttctgtgg gagcagtgtg caccaactct tcctgtatat tgcccttttg ctggaaaatg 360
 ttgtatgttg aataaaattt tctataaaaa ttaaaaaa 398

<210> 222
 <211> 301
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (49)
 <223> n=A,T,C or G
 <221> unsure
 <222> (64)
 <223> n=A,T,C or G

<400> 222

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ttcgataatt gatctcatgg gctttccctg gaggaaggt tttttttgnt gtttattttt 60
taanaacttg aaacttgtaa actgagatgt ctgtagcttt tttgcccata tgtagtgtat 120
gtgaagattt caaaacctga gagcactttt tctttgttta gaattatgag aaaggcacta 180
gatgacttta ggattttgcat ttttcccttt attgcctcat ttcttgtgac gccttgttgg 240
ggagggaaat ctgtttattt tttcctacaa ataaaaagct aagattctat atcgcaaaaa 300
a 301

```

<210> 223

<211> 200

<212> DNA

<213> Homo sapiens

<400> 223

```

gtaagtgtt aggaagaaac tttgcaaaca tttaatgagg atacactgtt catttttaaa 60
attccttcac actgtaattt aatgtgtttt atattctttt gtagtaaaac aacataactc 120
agattttctac aggagacagt ggtttttattt ggattgtctt ctgtaatagg tttcaataaa 180
gctggatgaa cttaaaaaaa 200

```

<210> 224

<211> 385

<212> DNA

<213> Homo sapiens

<400> 224

```

gaaagggttg atccggactc aaagaaagca aaggagtgtg agccgccatc tgctggagca 60
gctgtaactg caagacctgg acaagagatt cgtcagcgaa ctgcagctca aagaaacctt 120
tctccaacac cagcaagccc taaccagggc cctcctccac aagttccagt atctcctgga 180
ccaccaaagg acagttctgc ccttggtgga cccccagaaa ggactgttac tccagcccta 240
tcatcaaatg tgttaccaag acatcttgga tcccctgcta cttcagtgcc tggaatgggt 300
aaacagagca cttaatgtta tttacagttt atattgtttt ctctggttac caataaaacg 360
ggccattttc aggtggtaaa aaaaa 385

```

<210> 225

<211> 560

<212> PRT

<213> Homo sapien

<400> 225

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Met Glu Cys Leu Tyr Tyr Phe Leu Gly Phe Leu Leu Leu Ala Ala Arg
 1          5          10          15
Leu Pro Leu Asp Ala Ala Lys Arg Phe His Asp Val Leu Gly Asn Glu
 20          25          30
Arg Pro Ser Ala Tyr Met Arg Glu His Asn Gln Leu Asn Gly Trp Ser
 35          40          45
Ser Asp Glu Asn Asp Trp Asn Glu Lys Leu Tyr Pro Val Trp Lys Arg
 50          55          60
Gly Asp Met Arg Trp Lys Asn Ser Trp Lys Gly Gly Arg Val Gln Ala
 65          70          75          80
Val Leu Thr Ser Asp Ser Pro Ala Leu Val Gly Ser Asn Ile Thr Phe
          85          90          95
Ala Val Asn Leu Ile Phe Pro Arg Cys Gln Lys Glu Asp Ala Asn Gly
          100          105          110

```

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ile | Val | Tyr | Glu | Lys | Asn | Cys | Arg | Asn | Glu | Ala | Gly | Leu | Ser | Ala |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Asp | Pro | Tyr | Val | Tyr | Asn | Trp | Thr | Ala | Trp | Ser | Glu | Asp | Ser | Asp | Gly |
| | | 130 | | | | 135 | | | | | 140 | | | | |
| Glu | Asn | Gly | Thr | Gly | Gln | Ser | His | His | Asn | Val | Phe | Pro | Asp | Gly | Lys |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Pro | Phe | Pro | His | His | Pro | Gly | Trp | Arg | Arg | Trp | Asn | Phe | Ile | Tyr | Val |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Phe | His | Thr | Leu | Gly | Gln | Tyr | Phe | Gln | Lys | Leu | Gly | Arg | Cys | Ser | Val |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Arg | Val | Ser | Val | Asn | Thr | Ala | Asn | Val | Thr | Leu | Gly | Pro | Gln | Leu | Met |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Glu | Val | Thr | Val | Tyr | Arg | Arg | His | Gly | Arg | Ala | Tyr | Val | Pro | Ile | Ala |
| | | 210 | | | | 215 | | | | | 220 | | | | |
| Gln | Val | Lys | Asp | Val | Tyr | Val | Val | Thr | Asp | Gln | Ile | Pro | Val | Phe | Val |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Thr | Met | Phe | Gln | Lys | Asn | Asp | Arg | Asn | Ser | Ser | Asp | Glu | Thr | Phe | Leu |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Lys | Asp | Leu | Pro | Ile | Met | Phe | Asp | Val | Leu | Ile | His | Asp | Pro | Ser | His |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Phe | Leu | Asn | Tyr | Ser | Thr | Ile | Asn | Tyr | Lys | Trp | Ser | Phe | Gly | Asp | Asn |
| | | | 275 | | | | 280 | | | | | 285 | | | |
| Thr | Gly | Leu | Phe | Val | Ser | Thr | Asn | His | Thr | Val | Asn | His | Thr | Tyr | Val |
| | | | | | | 295 | | | | | 300 | | | | |
| Leu | Asn | Gly | Thr | Phe | Ser | Leu | Asn | Leu | Thr | Val | Lys | Ala | Ala | Ala | Pro |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| Gly | Pro | Cys | Pro | Pro | Pro | Pro | Pro | Pro | Pro | Arg | Pro | Ser | Lys | Pro | Thr |
| | | | | 325 | | | | | 330 | | | | | 335 | |
| Pro | Ser | Leu | Gly | Pro | Ala | Gly | Asp | Asn | Pro | Leu | Glu | Leu | Ser | Arg | Ile |
| | | | 340 | | | | | 345 | | | | | 350 | | |
| Pro | Asp | Glu | Asn | Cys | Gln | Ile | Asn | Arg | Tyr | Gly | His | Phe | Gln | Ala | Thr |
| | | | 355 | | | | 360 | | | | | 365 | | | |
| Ile | Thr | Ile | Val | Glu | Gly | Ile | Leu | Glu | Val | Asn | Ile | Ile | Gln | Met | Thr |
| | | | | | | 375 | | | | | 380 | | | | |
| Asp | Val | Leu | Met | Pro | Val | Pro | Trp | Pro | Glu | Ser | Leu | Ile | Asp | Phe | |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 |
| Val | Val | Thr | Cys | Gln | Gly | Ser | Ile | Pro | Thr | Glu | Val | Cys | Thr | Ile | Ile |
| | | | | 405 | | | | | 410 | | | | | 415 | |
| Ser | Asp | Pro | Thr | Cys | Glu | Ile | Thr | Gln | Asn | Thr | Val | Cys | Ser | Pro | Val |
| | | | 420 | | | | | 425 | | | | | 430 | | |
| Asp | Val | Asp | Glu | Met | Cys | Leu | Leu | Thr | Val | Arg | Arg | Thr | Phe | Asn | Gly |
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Phe Ser Phe Ala
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Asp Pro Asp Gly
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Pro Asn Ser Asp
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<400> 236
Ile Gln Asp Asp Phe Asn Asn Ala Ile Leu Val Asn Thr Ser Lys Arg
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Phe Ile Pro Pro Asn
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<211> 20
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<213> Homo sapiens
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Asn Ser Leu Gln
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<400> 239
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Gln Ile Ser Thr
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Ile Gln Asp Asp Phe
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<212> PRT
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Val Leu Gly Val
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<400> 242
Gly Ser His Ala Met Tyr Val Pro Gly Tyr Thr Ala Asn Gly Asn Ile
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Gln Met Asn Ala
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<210> 243
<211> 20
<212> PRT
<213> Homo sapiens
```

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Val Asn His Ser Pro Ser Ile Ser Thr Pro Ala His Ser Ile Pro Gly
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Ser His Ala Met
20

$$\begin{array}{ll} \langle 210 \rangle & 244 \\ \langle 211 \rangle & 20 \end{array}$$

<212> PRT

<213> Homo sapiens

<400> 244

Ala Val Pro Pro Ala Thr Val Glu Ala Phe Val Glu Arg Asp Ser Leu
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His Phe Pro His
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<210> 245

<211> 20

<212> PRT

<213> Homo sapiens

<400> 245

Lys Pro Gly His Trp Thr Tyr Thr Leu Asn Asn Thr His His Ser Leu
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Gln Ala Leu Lys
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<210> 246

<211> 20

<212> PRT

<213> Homo sapiens

<400> 246

Asn Leu Thr Phe Arg Thr Ala Ser Leu Trp Ile Pro Gly Thr Ala Lys
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Pro Gly His Trp
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<210> 247

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Phe Tyr Pro Ile
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Gly Ala Asp Val
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<212> PRT

<213> Homo sapiens

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Leu Thr Phe Arg
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<212> PRT

<213> Homo sapiens

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Val Pro Pro Ala
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<212> PRT

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 Ala Ala Val Ser Ser Ile Phe Asn Ser Pro Glu Glu Phe Leu Gly Lys
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 Ala Val Gly Leu Ser Ala Glu Ala Leu Thr Ile Gln Gln Tyr Ala Asp
 65 70 75 80
 Val Leu Ser Lys Ala Leu Gly Lys Glu Val Arg Asp Ala Lys Ile Thr
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 Pro Glu Ala Phe Glu Lys Leu Gly Phe Pro Ala Ala Lys Glu Ile Ala
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 Asn Met Cys Arg Phe Tyr Glu Met Lys Pro Asp Arg Asp Val Asn Leu
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 Glu Asn Gln Gly Ala Phe Lys Gly Met
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 <213> Homo sapien

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| tcagggccag | gctacaagct | atgaaataag | aatgagtaaa | agtctacaga | atatccaaga | 7440 |
| tgactttaac | aatgctat | tagtaaatac | atcaaagcga | aatcctcagc | aagctggcat | 7500 |
| cagggagata | tttacgttct | caccccaaat | ttccacgaat | ggacctgaac | atcagccaaa | 7560 |
| tggagaaaca | catgaaagcc | acagaattta | tgttgcaata | cgagcaatgg | ataggaactc | 7620 |
| cttacagtct | gctgtatcta | acattgcccc | ggcgctctct | tttattcccc | ccaattctga | 7680 |
| tcctgtacct | gccagagatt | atcttatatt | gaaaggagtt | ttaacagcaa | tgggtttgat | 7740 |
| aggaatcatt | tgccttatta | tagttgtgac | acatcatact | ttaagcagga | aaaagagagc | 7800 |
| agacaagaaa | gagaatggaa | caaaattatt | ataatgaatt | ctgcagatat | ccatcacact | 7860 |
| ggcgccgct | cgagcaccac | caccaccacc | actgagatcc | ggctgctaac | aaagcccga | 7920 |
| aggaagctga | gttggtgct | gccaccgctg | agcaataact | agcataaccc | cttggggcct | 7980 |
| ctaaacgggt | cttgaggggt | tttttgctga | aaggaggaac | tatatccgga | t | 8031 |

<210> 255

<211> 401

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(401)

<223> n = A,T,C or G

<400> 255

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gtggccagng | actagaaggc | gaggcgccgc | gggaccatgg | cggcggcggc | ggacgagcgg | 60 |
| agtccanagg | acggagaaga | cgaggaagag | gaggagcagt | tggttctggt | ggaattatca | 120 |
| ggaattattg | attcagactt | cctctcaaaa | tgtgaaaata | aatgcaaggt | tttgggcatt | 180 |
| gacactgaga | ggccatttct | gcaagtggac | agctgtgtct | ttgtctggga | gtatgaagac | 240 |
| actctangga | cctgtgttat | atttgaagaa | aatgntnaac | atgctgatac | agaaggcaat | 300 |
| aataaaacag | tgctaaaata | ttaatgccat | acaatgaaga | agctcagcat | gacaagaact | 360 |
| ctcctgacag | agaagaagga | aggagaagaa | aacatangtg | g | | 401 |

<210> 256

<211> 401

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(401)

<223> n = A,T,C or G

<400> 256

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| tggatggncct | gggatgggga | accgcggtgg | cttccgngga | ggtttcggca | ntggcatccg | 60 |
| gggcccgggt | cgcgcccgng | gacggggccg | gggcnangc | cgngganctc | gcggangcaa | 120 |
| ggccgaggat | aaggagtga | tgcccgtcac | caacttgggc | cgcttgacca | aggacatgaa | 180 |
| nancaagccc | ctgnaggaga | tctatntctt | cttcctgcc | ccattaagga | atcaagagat | 240 |
| catttgattt | cttcctgggg | gcctctctca | aggatnaggt | ttttgaagat | tatgccagtg | 300 |
| canaaannan | accccggttc | ccngtccatc | tncacccaac | ncttccaagg | gcnatttttg | 360 |
| tttaggcctc | attncngggg | ggaaccttaa | cccaatttgg | g | | 401 |

<210> 257
 <211> 401
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(401)
 <223> n = A,T,C or G

<400> 257
 atgtatgtaa aacacttcat aaaatgtaaa gggctataac aaatatgtta taaagtgatt 60
 ctctcagccc tgaggatatac agaatcattt gcctcagact gctgttgat tttaaaattt 120
 ttaaaatatac tgctaagtaa tttgctatgt cttctccac actatcaata tgctgcttc 180
 taacaggctc cccactttct tttaatgtgc tgttatgagc tttggacatg agataaccgt 240
 gcctgttcag agtgtctaca gtaagagctg gacaaactct ggagggacac agtctttgag 300
 acagctcttt tgggtgcttt ccacttttct gaaagggttca cagtaacctt ctagataata 360
 gaaactccca gttaaagcct angctancaa ttttttttag t 401

<210> 258
 <211> 401
 <212> DNA
 <213> Homo sapien

<400> 258
 ggagcgctag gtcggtgtac gaccgagatt aggggtgcgtg ccagctccgg gaggccgcgg 60
 tgaggggccc ggcccaagct gccgaccga gccgatcgtc aggggtcgcca gcgcctcagc 120
 tctgtggagg agcagcagta gtcggagggt gcaggatatt agaaatggct actccccagt 180
 caattttcat ctttgcaatc tgcattttaa tgataacaga attaatctct gcctcaaaaa 240
 gctactatga tatcttaggt gtgccaaaat cggcatcaga gcgccaaatc aagaaggcct 300
 ttcacaagtt ggccatgaag taccaccctg acaaaaataa gaccagatg ctgaagcaaa 360
 attcagagag attgcagaag catatgaaac actctcagat g 401

<210> 259
 <211> 401
 <212> DNA
 <213> Homo sapien

<400> 259
 attgggtttg gagggaggat gatgacagag gaatgccctt tggccatcac ggttttgatt 60
 ctccagaata ttgtgggttt gatcatcaat gcagtcattg taggctgcat tttcatgaaa 120
 acagctcagg ctacagaag ggcagaaact ttgattttca gccgccatgc tgtgattgcc 180
 gtccgaaatg gcaagctgtg cttcatgttc cgagtgggtg acctgaggaa aagcatgatc 240
 attagtgcct ctgtgcgcat ccagggtggtc aagaaaacaa ctacacctga aggggaggtg 300
 gttcctatcc accaactgga cattcctgtt gataacccaa tcgagagcaa taacattttt 360
 ctgggtggccc ctttgatcat ctgccacgtg attgacaagc g 401

<210> 260
 <211> 363
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(363)

<223> n = A,T,C or G

<400> 260

| | | | | | | |
|------------|-------------|-------------|--------------|------------|-------------|-----|
| aggaganang | gaggggggana | tgaatagggga | tgagagagggga | natagtggat | gagcaggggca | 60 |
| canggagagg | aancagaaaag | gagaggcaag | acagggagac | acacancaca | nangangana | 120 |
| caggtggggg | ctgggggtggg | gcatggagag | ccttttnangt | cncccaggcc | accctgctct | 180 |
| cgctgggctg | ttgaaaccca | ctccatggct | tcctgccact | gcagttgggc | ccagggctgg | 240 |
| cttattnctg | gaatgcaagt | ggctgtggct | tgagagcctcc | cctctggnnn | anggaaannn | 300 |
| attgctccct | tatctgcttg | gaatatctga | gtttttccan | cccggaaata | aaacacacac | 360 |
| aca | | | | | | 363 |

<210> 261

<211> 401

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(401)

<223> n = A,T,C or G

<400> 261

| | | | | | | |
|------------|-------------|-------------|-------------|------------|------------|-----|
| cggtctctcg | ccgtctctccc | gggggtttcgg | ggcacttggg | tcccacagtc | tggtcctgct | 60 |
| tcaccttccc | ctgacctgag | tagtcgccat | ggcacagggt | ctcagaggca | ctgngactga | 120 |
| cttccctgga | tttgatgagc | gggctgatgc | anaaaactctt | cggaaggcta | tgaaaggctt | 180 |
| gggcacagat | gaggagagca | tcctgactct | gttgacatcc | cgaagtaatg | ctcagcgcca | 240 |
| ggaaatctct | gcagctttta | agactctggt | tggcagggat | cttctggatg | acctgaaatc | 300 |
| agaactaact | ggaaaatttg | aaaaattaat | tgtggctctg | atgaaaccct | ctcggcttta | 360 |
| tgatgcttat | gaactgaaac | atgccttgaa | gggagctgga | a | | 401 |

<210> 262

<211> 401

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(401)

<223> n = A,T,C or G

<400> 262

| | | | | | | |
|------------|-------------|------------|-------------|------------|-------------|-----|
| agtctanaac | atttctaata | ttttgngctt | tcatatatca | aaggagatta | tgtgaaacta | 60 |
| tttttaaata | ctgtaaagtg | acatatagtt | ataagatata | tttctgtaca | gtagagaaaag | 120 |
| agtttataac | atgaagaata | ttgtaccatt | atacatTTTT | attctcgatc | tcataagaaa | 180 |
| ttcaaaagaa | taatgataga | ggtgaaaata | tgtttacttt | ctctaaatca | agcctagttg | 240 |
| tcaactcaaa | aattatgntg | catagtttta | ttttgaattt | aggttttggg | actacttttt | 300 |
| tccancttca | atgagaaaaat | aaaatctaca | actcaggagt | tactacagaa | gttctaanta | 360 |
| tttttttgct | aannagcnaa | aaatataaac | atatgaaaaat | g | | 401 |

<210> 263

<211> 401

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(401)
 <223> n = A,T,C or G

<400> 263
 ctgtccgacc aagagaggcc ggccgagccc gaggcttggg cttttgcttt ctggcggagg 60
 gatctgcggc ggtttaggag gcggcgctga tcctgggagg aagaggcagc tacggcggcg 120
 gcggcggtgg cggctagggc ggccggcgaat aaaggggccc ccgcccgggtg atgcgggtgac 180
 cactgcggca ggcccaggag ctgagtgggc cccggccctc agcccgtccc gncggacccg 240
 ctttcctcaa ctctccatct tctcctgccg accgagatcg ccgaggcggn ctacaggtcc 300
 ctancccctt ccccgctcct tccccncccc cgcccccgcc ccggggggccg ccgccacccg 360
 cctcccacca tggctctgaa ganaatccac aaggaattga a 401

<210> 264
 <211> 401
 <212> DNA
 <213> Homo sapien

<400> 264
 aacaccagcc actccaggac ccctgaaggc ctctaccagg tcaccagtgt tctgcgccta 60
 aagccacccc ctggcagaaa cttcagctgt gtgtttctgga atactcacgt gagggaaactt 120
 actttggcca gcattgacct tcaaagtcag atggaacca ggacccatcc aacttggctg 180
 cttcacattt tcatcccctc ctgcacatt gctttcattt tcatagccac agtgatagcc 240
 ctaagaaaac aactctgtca aaagctgtat tcttcaaaa acacaacaaa aagacctgtc 300
 accacaacaa agagggaagt gaacagtgtc gtgaatctga acctgtggtc ttgggagcca 360
 gggtagacctg atatgacatc taaagaagct tctggactct g 401

<210> 265
 <211> 271
 <212> DNA
 <213> Homo sapien.

<220>
 <221> misc_feature
 <222> (1)...(271)
 <223> n = A,T,C or G

<400> 265
 gccacttcct gtggacatgg gcagagcgct gctgccagtt cctggtagcc ttgaccacna 60
 cgctgggggg tctttgtgat ggtcatgggt ctcatcttga cttgggggtg tgggattcaa 120
 gttagaagtt tctagatctg gccgggcgca gtggctcaca cctgtaatcc cagcacttta 180
 ggaggctgag gcaggcgat catgaggtca ggagatcgag accgtcctgg ctaacacagt 240
 gaaaccccgt ctctactaaa aatacaaaaa a 271

<210> 266
 <211> 401
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(401)

CTGTCCGACC AAGAGAGGCC GGCCGAGCCC GAGGCTTGGG CTTTTGCTTT CTGGCGGAGG

<223> n = A,T,C or G

<400> 266

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| attcataaat | ttagctgaaa | gatactgatt | caatttgtat | acagngaata | taaagagac | 60 |
| gacagcaaaa | ttttcatgaa | atgtaaaata | tttttatagt | ttgttcatac | tatatgaggt | 120 |
| tctattttta | atgactttct | ggatttttaa | aaattttctt | aaatacaatc | atttttgtaa | 180 |
| tattttattt | atgcttatga | tctagataat | tgcagaatat | cattttatct | gactctgtct | 240 |
| tcataagaga | gctgtggccg | aattttgaac | atctgttata | gggagtgatc | aaattagaag | 300 |
| gcaatgtgga | aaaacaattc | tgggaaagat | ttctttatat | gaagtccttg | ccactagcca | 360 |
| gccatcctaa | ttgatgaaag | ttatctgttc | acaggcctgc | a | | 401 |

<210> 267

<211> 401

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(401)

<223> n = A,T,C or G

<400> 267

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaagaggcat | cacctgatcc | cggagacctt | tggagttaag | aggcggcgga | agcgagggcc | 60 |
| tgtggagtcg | gacccctctt | gggggtgagc | agggctcgcg | cgcgcgctg | tctcanaact | 120 |
| catgcagctg | ttcccgcgag | gcctgtttga | ggacgcgctg | ccgcccacg | tgctgaggag | 180 |
| ccaggtgtac | agccttgtgc | ctgacaggac | cgtggccgac | cggcagctga | aggagcttca | 240 |
| agagcanggg | gagacaaaat | cgtccagctg | ggcttcnact | tggatgcca | tggaanttat | 300 |
| tctttcnctt | ganggactta | cnngggaccc | aagaancctt | tncaaggggc | ccttngtgga | 360 |
| tgggncccg | aaccccnnta | tttgcccttg | ggggggncca | a | | 401 |

<210> 268

<211> 223

<212> DNA

<213> Homo sapien

<400> 268

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| tcgccatgtt | ggccaggctg | gtcttgaact | cctgacttta | agtgateccac | ccgcctcaac | 60 |
| ctcccaaagt | gctgggatta | caggtgtgag | ccaccgcgcc | tggcctgata | catactttta | 120 |
| gaatcaagta | gtcacgcact | ttttctgttc | atttttctaa | aaagtaaata | tacaaatgtt | 180 |
| ttgttttttg | ttttttttgt | ttgtttgttt | ctgttttttt | ttt | | 223 |

<210> 269

<211> 401

<212> DNA

<213> Homo sapien

<400> 269

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| actatgtaaa | ccacattgta | ctttttttta | ctttggcaac | aaatatttat | acatacaaga | 60 |
| tgctagtcca | tttgaatatt | tctcccaact | tatccaagga | tctccagctc | taacaaaatg | 120 |
| gtttattttt | atttaaatgt | caatagtgtg | tttttaaaat | ccaaatcaga | ggtgcaggcc | 180 |
| accagttaaa | tgccgtctat | caggttttgt | gccttaagag | actacagagt | caaagctcat | 240 |
| ttttaaagga | gtaggacaaa | gttgtcacag | gtttttgttg | ttgtttttat | tgccccaaa | 300 |
| attacatgtt | aatttcatt | tatatcaggg | attctattta | cttgaagact | gtgaagttgc | 360 |
| cattttgtct | cattgttttc | tttgacataa | ctaggatcca | t | | 401 |

<210> 270
 <211> 401
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(401)
 <223> n = A,T,C or G

<400> 270
 tggctgttga ttcacctcag cactgcttgg tatctgcacc ctacctctct ttagaggctg 60
 ccttgtcaac tgaaaaatgc acctgacttc gagcaagact ctttccttag gttctggatc 120
 tgtttgagcc ccattggcact gagctggaat ctgaggggtct tgttccaagg atgtgatgat 180
 gtggggagaat gttcttttgaa agagcagaaa tccagtctgc atggaaacag cctgtagagn 240
 agaagtttcc agtgataagt gttcactgtt ctaaggaggt acaccacagc tacctgaatt 300
 ttcccaaaat gagtgtttct gtgcgttaca actggccttt gtacttgact gtgatgactt 360
 tgttttttct tttcaattct anatgaacat gggaaaaaat g 401

<210> 271
 <211> 329
 <212> DNA
 <213> Homo sapien

<400> 271
 ccacagcctc caagtcaggt ggggtggagt cccagagctg cacagggttt ggcccaagtt 60
 tctaaggagag gcacttcttc cctcgcacca tcagtgccag cccctgctgg ctggtgcctg 120
 agcccctcag acagccccct gccccgcagg cctgccttct cagggacttc tgcggggcct 180
 gaggcaagcc atggagttag acccaggagc cggacacttc tcaggaaatg gcttttccca 240
 acccccagcc cccacccggt ggtttcttct gttctgtgac tgtgtatagt gccaccacag 300
 cttatggcat ctcataggag acaaaaaaa 329

<210> 272
 <211> 401
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(401)
 <223> n = A,T,C or G

<400> 272
 nggctgntaa cntcggaggt nacttcctgg actatcctgg agacccccctc cgcttccacg 60
 nncatnatat cnctcatngc tgggcccctn angacacnat cccactccaa cacctgngng 120
 atgctggncn cctnggaacc ancntcagaa ngaccctgnt cntntgtntt ccgcaanctg 180
 aagannaangc gggntacacc tncntgcant ggnccaacct gcngggaact ntacacacct 240
 acgggatgtg gctgcgccan gagccaagag cntttctgga tgattcccca gcctcttgnn 300
 agggantcta caacattgct nnntaccttt ntcnncngc nntntntgga ntacaggngn 360
 tnntaacact acatcttttt tactgcncn tnccttggtgg g 401

<210> 273
 <211> 401

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(401)
<223> n = A,T,C or G

<400> 273

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| cagcaccatg | aagatcaaga | tcatcgacc | cccagagcgc | aagtactcgg | tgtggatcgg | 60 |
| tggtccatc | ctggcctcac | tgtccacctt | ccagcagatg | tggtattagca | agcaggagta | 120 |
| cgacgagtcg | ggccccctcca | tcgtccaccg | caaagtcttc | taaacggact | cagcagatgc | 180 |
| gtagcatttg | ctgcatgggt | taattgagaa | tagaaatttg | cccctggcaa | atgcacacac | 240 |
| ctcatgctag | cctcacgaaa | ctggaataag | ccttcgaaaa | gaaattgtcc | ttgaagcttg | 300 |
| tatctgatat | cagcactgga | ttgtagaact | tggtgctgat | tttgaccttg | tattgaagtt | 360 |
| aactgttccc | cttggtatta | acgtgtcagg | gctgagtgn | c | | 401 |

<210> 274
<211> 401
<212> DNA
<213> Homo sapien

<400> 274

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| ccaccacac | ccaccgcgc | ctcgttcgcc | tcttctccgg | gagccagtc | gcgccaccgc | 60 |
| cgccgcccag | gccatcgcca | ccctccgcag | ccatgtccac | caggtccgtg | tcctcgtcct | 120 |
| cctaccgcag | gatgttcggc | ggccccggca | ccgcgagccg | gccgagctcc | agccggagct | 180 |
| acgtgactac | gtccaccgc | acctacagcc | tgggcagcgc | gctgcgcccc | agcaccagcc | 240 |
| gcagcctcta | cgctcgtcc | ccgggcggcg | tgtatgccac | gcgctcctct | gccgtgcgcc | 300 |
| tgccggagcag | cgtgcccggg | gtgcggctcc | tgcaggactc | ggtggacttc | tcgctggccg | 360 |
| acgccatcaa | caccgagttc | aagaacaccc | gcaccaacga | g | | 401 |

<210> 275
<211> 401
<212> DNA
<213> Homo sapien

<400> 275

| | | | | | | |
|------------|------------|------------|-------------|--------------|------------|-----|
| ccacttccac | cactttgtgg | agcagtgcct | tcagcgcaac | ccggatgcc | ggtatccctg | 60 |
| ctggcctggg | cctgggcttc | gggagagcag | aggggtgctca | ggagggtgtaag | gccaggggtg | 120 |
| gaagggactt | acctcccaa | ggttctgcag | gggaatctgg | agctacacac | aggagggatc | 180 |
| agctcctggg | tgtgtcagag | gccagcctgg | ggagctctgg | ccactgcttc | ccatgagctg | 240 |
| agggagaggg | agaggggacc | cgaggctgag | gcataagtgg | caggatttcg | ggaagctggg | 300 |
| gacacggcag | tgatgctgcg | gtctctctc | ccctttccct | ccaggcccag | tgccagcacc | 360 |
| ctcctgaacc | actctttctt | caagcagatc | aagcgacgtg | c | | 401 |

<210> 276
<211> 401
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(401)
<223> n = A,T,C or G

<400> 276
 tctgatattg ntacccttga gccacctaag ttagaagaaa ttggaaatca agaagttgtc 60
 attgttgaag aagcacagag ttcagaagac tttaacatgg gctcttcctc tagcagccag 120
 tatactttct gtcagccaga aactgtattt tcattctcagc ctagtgatga tgaatcaagt 180
 agtgatgaaa ccagtaatca gcccagtcct gcctttagac gacgccgtgc taggaagaag 240
 accgtttctg cttcagaatc tgaagaccgg ctagtgtgtg aacaagaaac tgaaccttct 300
 aaggagttga gtaaactgca gttcagtagt ggtctcaata agtgtgttat acttgctttg 360
 gtgattgcaa tcagcatggg atttggccat ttctatggca c 401

<210> 277
 <211> 401
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(401)
 <223> n = A,T,C or G

<400> 277
 aactttggca acatatctca gcaaaaacta cagctatggt attcatgcc aataaaaagc 60
 tgtgcagagg agtggctgca atgaggtcac aacgggtgtg gatgtaaaag agatcttcaa 120
 gtcctcatca cccatccctc gaactcaagt cccgctcatt acaaattctt cttgccagtg 180
 tccacacatc ctgccccatc aagatgttct catcatgtgt tacgagnggc gctcaaggat 240
 gatgcttctt gaaaattgct tagttgaaaa atggagagat cagcttagta aaagatccat 300
 acagtgggaa gagaggctgc aggaacagcg ganaacagtt caggacaaga agaaaacagc 360
 cgggcgacc agtcgtagta atccccccaa accaaaggga a 401

<210> 278
 <211> 401
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(401)
 <223> n = A,T,C or G

<400> 278
 aatgagtgtg agaccacaaa tgaatgccgg gaggatgaaa tgtgttgga ttatcatggc 60
 ggcttccgtt gttatccacg aaatccttgt caagatccct acattctaac accagagaac 120
 cgatgtgttt gcccagtcct aaatgccatg tgccgagaac tgccccagtc aatagtctac 180
 aaatacatga gcatccgcat tgataggtct gtgccatcag acatcttcca gatacaggcc 240
 acaactatth atgccaacac catcaatact tttcggatta aatctggaaa tgaaaatgga 300
 gagtctacct acgacaacaa anccctgtaa gtgcaatgct tgtgctcgtg aagncattat 360
 caggaccaag agaacatatc gtggacctgg agatgctgac a 401

<210> 279
 <211> 401
 <212> DNA
 <213> Homo sapien

<220>

CCCTTGAAG AAGCACAGAG TTCAGAAGAC TTTAACATGG GCTCTTCCTC TAGCAGCCAG

<221> misc_feature
 <222> (1)...(401)
 <223> n = A,T,C or G

<400> 279
 aaattattgc ctctgataca tacctaagtn aacanaacat taatacctaa gttaaataaa 60
 cttactttgg agggttgcag nttctaantg aaactgtatt tgaaactttt aagtatactt 120
 taggaacaaa gcatgaacgg cagtctagaa taccagaaac atctacttgg gtagcttggn 180
 gccattatcc tgtggaatct gatatgtctg gnagcatgtc attgatggga catgaagaca 240
 tctttggaaa tgatgagatt atttcctgtg ttaaaaaaaa aaaaaatctt aaattcctac 300
 aatgtgaaac tgaaactaat aattttgatc ctgatgtatg ggacagcgta tctgtaccag 360
 gctctaaata acaaaagnta gggngacaag nacatgttcc t 401

<210> 280
 <211> 326
 <212> DNA
 <213> Homo sapien

<400> 280
 gaagtggaaat tgtataattc aattcgataa ttgatctcat gggctttccc tggaggaaaag 60
 gttttttttg ttgttttttt tttaagaact tgaaacttgt aaactgagat gtctgtagct 120
 tttttgccc tctgtagtgt atgtgaagat ttcaaaacct gagagcactt tttctttgtt 180
 tagaattatg agaaaggcac tagatgactt taggatttgc atttttccct ttattgcctc 240
 atttcttggt acgccttggt ggggagggaa atctgtttat tttttcctac aaataaaaag 300
 ctaagattct atatcgcaaa aaaaaa 326

<210> 281
 <211> 374
 <212> DNA
 <213> Homo sapien

<400> 281
 caacgcgttt gcaaattatc ccttggtagc ctacttccct acccccgaat attggtaga 60
 tcgagcaatg gcttcaggac atgggttctc ttctcctgtg atcattcaag tgctcactgc 120
 atgaagactg gcttgtctca gtgtttcaac ctaccagggt ctgtctcttg gtccacacct 180
 cgctccctgt tagtgccgta tgacagcccc catcaaatga ccttggccaa gtcacggttt 240
 ctctgtggtc aaggttggtt ggctgattgg tggaaagtag ggtggacca aggaggccac 300
 gtgagcagtc agcaccagtt ctgcaccagc agcgccctcg tcctagtggg tgttctgtt 360
 tctcctggcc ctgg 374

<210> 282
 <211> 404
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(404)
 <223> n = A,T,C or G

<400> 282
 agtgtggtgg aattcccgca tcctanncgc cgactcacac aaggcagagt ngccatggag 60
 aaaattccag tgtcagcatt cttgtcctt gtggccctct cctacactct ggccagagat 120
 accacagtca aacctgnagc caaaaaggac acaaaggact ctcgaccaa actgccccan 180


```

accctctcca gaggttgggg tgaccaactc atctggactc anacatatga agaagctcta      240
tataaatcca agacaagcaa caaacccttg atgattattc atcacttgga tgagtgccca      300
cacagtcaag ctttaaagaa agtgtttgct gaaaataaag aaatccagaa attggcagag      360
cagtttgtcc tcctcaatct ggtttatgaa acaactgaca aaca                        404

```

```

<210> 283
<211> 184
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(184)
<223> n = A,T,C or G

```

```

<400> 283
agtgtggtgg aattcacttg cttaanttgt gggcaaaaga gaaaaagaag gattgatcag      60
agcattgtgc aatacagttt cattaactcc ttccctcgct cccccaaaaa tttgaatttt      120
tttttcaaca ctcttacacc tgttatggaa aatgtcaacc tttgtaagaa aacccaaaata      180
aaaa                                              184

```

```

<210> 284
<211> 421
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(421)
<223> n = A,T,C or G

```

```

<400> 284
ctattaatcc tgccacaata tttttaatta cgtacaaaga tctgacatgt caccagggga      60
cccatttcac ccactgctct gtttggccgc cagtcttttg tctctctctt cagcaatggt      120
gaggcgata ccctttcctc ggggaanana aatccatggt ttgttgcctt tgccaataac      180
aaaaatgttg gaaagtcgag tggcaaagct gttgccattg gcatctttca cgtgaaccac      240
gtcaaaagat ccagggtgcc tctctctggt ggtgatcaca ccaattcttc ctagggttagc      300
acctccagtc accatacaca ggttaccagt gtcgaacttg atgaaatcag taatcttgcc      360
agtctctaaa tcaatctgaa tggtatcatt caccttgatg aggggatcgg ggtagcggat      420
g                                              421

```

```

<210> 285
<211> 361
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(361)
<223> n = A,T,C or G

```

```

<400> 285
ctgggtggta actctttatt tcattgtccg gaanaaagat gggagtggga acagggtgga      60
cactgtgcag gcttcagctt ccactccggg caggattcag gctatctggg accgcaggga      120

```

```

ctgccagggtg cacagccctg gctcccagg caggcaggca aggtgacggg actggaagcc 180
cttttcanag ccttggagga gctgggccgt ccacaagcaa tgagtgccac tctgcagttt 240
gcaggggatg gataaacagg gaaacactgt gcattcctca cagccaacag tgtaggtctt 300
ggtgaagccc cggcgctgag ctaagctcag gctgttccag ggagccacga aactgcaggt 360
a 361

```

```

<210> 286
<211> 336
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(336)
<223> n = A,T,C or G

```

```

<400> 286
tttgagtggc agcgctttaa tttgtggggg ccttcaaggn agggtcgtgg ggggcagcgg 60
ggaggaanag ccganaaaact gtgtgaccgg ggcctcaggt ggtgggcatt gggggctcct 120
cttgcanatg cccattggca tcaccggtgc agccattggt ggagcgggt accggtcctt 180
tcttgttcaa catagggtag gtggcagcca cgggtccaac tcgcttgagg ctgggacctg 240
ggcgctccat tttgtgttcc angagcatgt ggttctgtgg cgggagcccc acgcaggccc 300
tgaggatgtt ctgatgcag ctgcgctggc ggaaaa 336

```

```

<210> 287
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 287
tgggtaccaa atttntttat ttgaaggaat ggnacaaatc aaanaactta agnggatgtt 60
ttggtacaac ttatanaaaa ggnaaaggaa accccaacat gcatgcnctg ccttgngnac 120
caggggaagtc accccacggc tatggggaaa ttancccgag gcttancttt cattatcact 180
gtctcccagg gngngcttgt caaaaanata ttccnccaag ccaaattcgg gcgctcccat 240
nttgcncaa gttgtcacgt ggtcacccaa ttctttgatg gctttcacct gctcattcag 300
g 301

```

```

<210> 288
<211> 358
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(358)
<223> n = A,T,C or G

```

```

<400> 288
aagtttttaa actttttatt tgcatattaa aaaaattgng cattccaata attaaaaatca 60

```

```

tttgaacaaa aaaaaaaatg gcactctgat taaactgcat tacagcctgc aggacacctt 120
gggccagctt ggttttactc tanatttcac tgtcgtccca cccacttct tccacccac 180
ttcttccttc accaacaatgc aagttctttc cttccctgcc agccanatag atagacagat 240
gggaaaggca ggcgcggcct tcgttgtcag tagttctttg atgtgaaagg ggcagcacag 300
tcatttaaac ttgatccaac ctctttgcat cttacaaagt taaacagcta aaagaagt 358

```

```

<210> 289
<211> 462
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(462)
<223> n = A,T,C or G

```

```

<400> 289
ggcatcagaa atgctgttta tttctctgct gctcccaagc tggctggcct ttgcagagga 60
gcagacaaca gatgcatagt tgggganaaa gggaggacag gttccaggat agagggtgca 120
ggctgaggga ggaagggtaa naggaaggaa ggccatcctg gatccccaca tttcagtctc 180
anatgaggac aaagggactc ccaagcccc aaatcatcan aaaacaccaa ggagcaggag 240
gagcttgagc aggcccccag gagcctcana gccataccag ccaactgtcta cttcccatcc 300
tcctctccca ttccctgtct gcttcanacc acctcccagc taagccccag ctccattccc 360
ccaatcctgg cccttgccag cttgacagtc acagtgcctg gaattccacc actgaggctt 420
ctcccagttg gattaggacg tcgccctgtt agcatgctgc cc 462

```

```

<210> 290
<211> 481
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(481)
<223> n = A,T,C or G

```

```

<400> 290
tactttccta aactttatta aagaaaaaag caataagcaa tggnggtaaa tctctanaac 60
ataccaatt ttctgggctt cctccccga gaatgtgaca ttttgatttc caaacatgcc 120
anaagtgtat ggttcccaac tgtactaaag taggtganaa gctgaagtcc tcaagtgttc 180
atcttccaac ttttccagc ctgtgggtctg tctttggatc agcaataatt gcctgaacag 240
ctactatggc ttcgttgatt tttgtctgta gctctctgag ctctctatg tgcagcaatc 300
gcanaatttg agcagcttca ttaanaactg catctcctgt gtcaaaacca anaatatgtt 360
tgtctaaagc aacaggtaag ccctcttttg tttgatttgc cttancaact gcatcctgtg 420
tcaggcgctc ctgaaccaa atccgaattg ccttaagcat taccaggtaa tcatcatgac 480
g 481

```

```

<210> 291
<211> 381
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```

<222> (1)...(381)

<223> n = A,T,C or G

<400> 291

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| tcataagtaat | gtaaaacat | ttgtttaatt | ctaaatcaaa | tcactttcac | aacagtga | 60 |
| attagtact | ggtaaggng | tgccactgta | catatcatca | ttttctgact | ggggtcagga | 120 |
| cctggccta | gtccacaagg | gtggcaggag | gaggggtggag | gctaanaaca | cagaaaacac | 180 |
| acaaaanaaa | ggaaagctgc | cttggcanaa | ggatgaggng | gtgagcttgc | cgaaggatgg | 240 |
| tgggaagggg | gctccctgtt | ggggccgagc | caggagtccc | aagtcagctc | tcctgcctta | 300 |
| cttagctcct | ggcanagggt | gagtggggac | ctacgaggtt | caaaatcaaa | tggcatttgg | 360 |
| ccagcctggc | tttactaaca | g | | | | 381 |

<210> 292

<211> 371

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(371)

<223> n = A,T,C or G

<400> 292

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaaaaataa | tccgtttaat | tgaaaaacct | gnaggatact | attccactcc | cccanatgag | 60 |
| gaggtgagg | anaccaaacc | cctacatcac | ctcgtagcca | cttctgatac | tcttcacgag | 120 |
| gcagcaggca | aagacaattc | ccaaaacctc | nacaaaagca | attccaaggg | ctgctgcagc | 180 |
| taccaccanc | acatttttcc | tcagccagcc | cccaatcttc | tccacacagc | cctccttatg | 240 |
| gatcgcttc | tcgttgaaat | taatcccaca | gccacagta | acattaatgc | ancaggagtc | 300 |
| ggggactcgg | ttcttcgaca | tggaagggat | tttctcccaa | tctgtgtagt | tagcagcccc | 360 |
| acagcactta | a | | | | | 371 |

<210> 293

<211> 361

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(361)

<223> n = A,T,C or G

<400> 293

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gatttaaaag | aaaacacttt | attgttcagc | aattaaaagt | tagccaaata | tgtatttttc | 60 |
| tccataattt | attgngatgt | tatcaacatc | aagtaaaatg | ctcattttca | tcatttgctt | 120 |
| ctgttcatgt | tttcttgaac | acgtcttcaa | ttttccttcc | aaaatgctgc | atgccacact | 180 |
| tgaggtaacg | aagcanaagt | atttttaaac | atgacagcta | anaacattca | tctacagcaa | 240 |
| cctatatgct | caatacatgc | cgcgtgatcc | tagtagtttt | ttcacaacct | tctacaagtt | 300 |
| tttggaanaa | atctgttatg | atgactttca | tacaccttca | cctcaaaggc | tttcttgcac | 360 |
| c | | | | | | 361 |

<210> 294

<211> 391

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(391)
 <223> n = A,T,C or G

<400> 294
 tatttttaaag ttttaattatg attcanaaaa aatcgagcga ataactttct ctgaaaaaat 60
 atattgactc tgtatanacc acagttattg gggganaagg gctggtaggt taaattatcc 120
 tattttttat tctgaaaatg atattaatan aaagtcccgt ttccagtctg attataaaga 180
 tacatatgcc caaaatggct ganaataaat acaacaggaa atgcaaaagc tgtaaagcta 240
 agggcatgca ananaaaatc tcanaatacc caaagnggca acaaggaacg tttggctgga 300
 atttgaagtt atttcagtca tctttgtctt tggtccatg tttcaggatg cgtgtgaact 360
 cgatgtaatt gaaattcccc tttttatcaa t 391

<210> 295
 <211> 343
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(343)
 <223> n = A,T,C or G

<400> 295
 ttcttttggt ttattgataa cagaaactgt gcataattac agatttgatg aggaatctgc 60
 aaataataaa gaatgtgtct actgccagca aaatacaatt attccatgcc ctctcaacat 120
 acaaatatag agttcttcac accanatggc tctgggtgtaa caaagccatt ttanatgttt 180
 aattgtgctt ctacaaaacc ttcanagcat gaggtagttt cttttaccta cnatattttc 240
 cacatttcca ttattacact tttagtgagc taaaatcctt ttaacatagc ctgcggatga 300
 tctttcacaa aagccaagcc tcatttaca agggtttatt tct 343

<210> 296
 <211> 241
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(241)
 <223> n = A,T,C or G

<400> 296
 ttcttgata ttggtgttt ttgtgaaaaa gtttttggtt ttcttctcag tcaactgaat 60
 tatttctcta ctttgccctc ctgatgccca catgananaa cttaanataa tttctaacag 120
 cttccacttt ggaaaaaaa aaaacctgtt ttcctcatgg aaccccagga gttgaaagtg 180
 gatanatcgc tctcaaaatc taaggctctg ttcagcttta cattatgtta cctgacgttt 240
 t 241

<210> 297
 <211> 391
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(391)
 <223> n = A,T,C or G

<400> 297
 gttgtggctg anaatgctgg agatgctcag ttctctccct cacaaggtag gccacaaatt 60
 cttggtgggtg ccctcacatc tgggggtcttc aggcaccagc catgcctgcc gaggagtgct 120
 gtcaggacan accatgtcog tgctaggccc aggcacagcc caaccaactcc tcatccaagt 180
 ctctcccagg tttctgggtcc cgatgggcaa ggatgacccc tccagtgggt ggtaccccac 240
 catcccacta cccctcacat gctctcactc tccatcaggt ccccaatcct ggcttcctc 300
 ttcacgaact ctcaaagaaa aggaaggata aaacctaataa aaaccagaca gaagcagctc 360
 tggaaaagta caaaaagaca gccagagggtg t 391

<210> 298
 <211> 321
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(321)
 <223> n = A,T,C or G

<400> 298
 caagccaaac tgnntccagc tttattaaan atactttcca taaacaatca tggattttca 60
 ggcaggacat gggcanacaa tcgttaacag tatacaacaa ctttcaaact ccttntttca 120
 atggactacc aaaaatcaaa aagccactat aaaacccaat gaagtcttca tctgatgctc 180
 tgaacaggga aagttttaaag ngaggggtga catttcacat ttagcatgtt gtttaacaac 240
 ttttcacaag ccgaccctga ctttcaggaa gtgaaatgaa aatggcanaa tttatctgaa 300
 natccacaat ctaaaaatgg a 321

<210> 299
 <211> 401
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(401)
 <223> n = A,T,C or G

<400> 299
 tatcataaag agtgttgaag tttattttatt atagcaccat tgagacattt tgaaattgga 60
 attggtaaaa aaataaaaca aaaagcattt gaattgtatt tggnggaaca gcaaaaaaag 120
 agaagtatca tttttctttg tcaaattata ctgtttccaa acatttttga aataaataac 180
 tggaattttg tcggtcactt gactgggttg acaagattag aacaagagga acacatatgg 240
 agttaaattt tttttgttgg gatttcanat agagtttgggt ttataaaaag caaacagggc 300
 caacgtccac accaaattct tgatcaggac caccaatgtc atagggngca atatctacaa 360
 taggtagtct cacagccttg cgtgttcgat attcaaagac t 401

<210> 300
 <211> 188

ggtgtggctg anaatgctgg agatgctcag ttctctccct cacaaggtag gccacaaatt 60
 cttggtgggtg ccctcacatc tgggggtcttc aggcaccagc catgcctgcc gaggagtgct 120
 gtcaggacan accatgtcog tgctaggccc aggcacagcc caaccaactcc tcatccaagt 180
 ctctcccagg tttctgggtcc cgatgggcaa ggatgacccc tccagtgggt ggtaccccac 240
 catcccacta cccctcacat gctctcactc tccatcaggt ccccaatcct ggcttcctc 300
 ttcacgaact ctcaaagaaa aggaaggata aaacctaataa aaaccagaca gaagcagctc 360
 tggaaaagta caaaaagaca gccagagggtg t 391

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(188)
<223> n = A,T,C or G

<400> 300
tgaatgcttt gtcataataa gaaagttaaa gtgcaataat gtttgaanac aataagtgg 60
ggtgtatctt gtttctaata agataaactt ttttgtcttt gctttatctt attagggagt 120
tgtatgtcag tgtataaaac atactgtgtg gtataacagg cttaataaat tctttaaaag 180
gaaaaaaa 188

<210> 301
<211> 291
<212> DNA
<213> Homo sapien

<400> 301
aagatcttgt tttatcttat tatggctaga aagacactgt tatagccaaa atcggcaatg 60
acactaaaga aatcctctgt gcttttcaat atgcaaata atttcttcca agagttgccc 120
tgggtgtgact tcaagagttc atgttaactt cttttctgga aacttccttt tcttagttgt 180
tgtattcttg aagagcctgg gccatgaaga gcttgccctaa gttttgggca gtgaactcct 240
tgatgttctg gcagtaagtg tttatctggc ctgcaatgag cagcgagtcc a 291

<210> 302
<211> 341
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(341)
<223> n = A,T,C or G

<400> 302
tgatctttca taattttatt aaatnatcac tgggaaaact aatggttcgc gtatcacaca 60
attacactac aatctgatag gagggtgaaa accagccaat ggaatccagg taaagtacaa 120
aaacgccacc ttttattgtc ctgtcttatt tctcgggaag gaggggttcta ctttacacat 180
ttcatgagcc agcagtggac ttgagttaca atgtgtaggt tccttgtggg tatagctgca 240
gaagaagcca tcaaattctt gaggacttga catctctcgg aaagaagcaa actagtggat 300
cccccggtc gcaggaattc gatatcaagc ttatcgatac c 341

<210> 303
<211> 361
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(361)
<223> n = A,T,C or G

139

```
<220> .
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G
```

```
<210> 305
<211> 331
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(331)
<223> n = A,T,C or G
```

```
<210> 306
<211> 457
<212> DNA
<213> Homo sapien
```

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|-----|
| <400> 306 | | | | | | |
| aatatgtaaa | ggtaataact | tttattatat | taaagacaat | gcaaacgaaa | aacagaattg | 60 |
| agcagtgcaa | aattttaaagg | actgttttgt | tctcaaagtt | gcaagtttca | aagccaaaag | 120 |
| aattatatgt | atcaaataata | taagtaaaaa | aaagtttagac | tttcaagcct | gtaatcccag | 180 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cactttggga | ggctgaggca | ggtggatcac | taacattaaa | aagacaacat | tagattttgt | 240 |
| cgatttatag | caattttata | aatatataac | tttgtcactt | ggatcctgaa | gcaaaataat | 300 |
| aaagtgaatt | tgggattttt | gtacttggtg | aaaagttaa | caccctaaat | tcacaactag | 360 |
| tggatcccc | gggctgcagg | aattcgatat | caagcttata | gataccgtcg | acctcgaggg | 420 |
| ggggcccggt | acccaattcg | ccctatagtg | agtcgta | | | 457 |

<210> 307
 <211> 491
 <212> DNA
 <213> Homo sapien

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 307 | | | | | | |
| gtgcttgga | ggaacccggc | gctcgttccc | caccccgccc | ggccgccc | agccagccct | 60 |
| ccgtcacctc | ttcacgcac | cctcggactg | ccccaaggcc | cccgcgcgcg | ctccagcgcc | 120 |
| gcgcagccac | cgccgcgccc | gccgcctctc | cttagtcgcc | gccatgacga | ccgcgtccac | 180 |
| ctcgcaggtg | cgccagaact | accaccagga | ctcagaggcc | gccatcaacc | gccagatcaa | 240 |
| cctggagctc | tacgcctcct | acgtttacct | gtccatgtct | tactactttg | accgcgatga | 300 |
| tgtggctttg | aagaactttg | ccaaatactt | tcttcaccaa | tctcatgagg | agagggaaca | 360 |
| tgctgagaaa | ctgatgaagc | tgcagaacca | acgagggtggc | cgaatcttcc | ttcaggatat | 420 |
| caagaaacca | gactgtgatg | actgggagag | cgggctgaat | gcaatggagt | gtgcattaca | 480 |
| tttggaaaaa | a | | | | | 491 |

<210> 308
 <211> 421
 <212> DNA
 <213> Homo sapien

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 308 | | | | | | |
| ctcagcgctt | cttctttctt | ggtttgatcc | tgactgctgt | catggcgtgc | cctctggaga | 60 |
| aggccctgga | tgtgatggtg | tccaccttcc | acaagtactc | gggcaaagag | ggtgacaagt | 120 |
| tcaagctcaa | caagtcagaa | ctaaaggagc | tgctgacccg | ggagctgccc | agcttcttgg | 180 |
| ggaaaaggac | agatgaagct | gctttccaga | agctgatgag | caacttggac | agcaacaggg | 240 |
| acaacgaggt | ggacttccaa | gagtactgtg | tcttcctgtc | ctgcatcgcc | atgatgtgta | 300 |
| acgaattctt | tgaaggcttc | ccagataagc | agcccaggaa | gaaatgaaaa | ctcctctgat | 360 |
| gtggttgggg | ggtctgccag | ctggggccct | ccctgtcgcc | agtgggcact | tttttttttc | 420 |
| c | | | | | | 421 |

<210> 309
 <211> 321
 <212> DNA
 <213> Homo sapien

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 309 | | | | | | |
| accaaattggc | ggatgacgcc | ggtgcagcgg | gggggcccgg | gggccctggt | ggccctggga | 60 |
| tggggaaccg | cggtggcttc | cgcgagggtt | tgggcagtgg | catccggggc | cggggtcgcg | 120 |
| gccgtggacg | gggcccgggc | cgaggccgcg | gagctcgccg | aggcaaggcc | gaggataaag | 180 |
| agtggatgcc | cgtcaccaag | ttgggcccgt | tggccaagga | catgaagatc | aagtccctgg | 240 |
| aggagatcta | tctcttctcc | ctgcccatta | aggaatcaga | gatcattgat | ttcttctctg | 300 |
| gggcctctct | caaggatgag | g | | | | 321 |

<210> 310
 <211> 381
 <212> DNA
 <213> Homo sapien

<400> 310

| | |
|--|-----|
| ttaaccagcc atattggctc aataaatagc ttcggttaagg agttaatttc cttctagaaa | 60 |
| tcagtgccta tttttcctgg aaactcaatt ttaaatagtc caattccatc tgaagccaag | 120 |
| ctgttgcat tttcattcgg tgacattctc tcccatgaca cccagaagg gcagaagaac | 180 |
| cacatTTTTt atttatagat gtttgcattc tttgtattaa aattattttg aaggggttgc | 240 |
| ctcattggat ggctTTTTt tttttcctcc agggagaagg ggagaaatgt acttggaat | 300 |
| taatgtatgt ttacatctct ttgcaaattc ctgtacatag agatatattt ttttaagtgtg | 360 |
| aatgtaacaa catactgtga a | 381 |

<210> 311

<211> 538

<212> DNA

<213> Homo sapien

<400> 311

| | |
|--|-----|
| tttgaattta caccaagaac ttctcaataa aagaaaatca tgaatgctcc acaatttcaa | 60 |
| cataccacaa gagaagttaa tttcttaaca ttgtgttcta tgattatttg taagaccttc | 120 |
| accaagtctt gatattcttt aaagacatag ttcaaaattg cttttgaaaa tctgtattct | 180 |
| tgaaaatata cttgttgtgt attaggtttt taaataccag cttaaaggatt acctcactga | 240 |
| gtcatcagta cctcctatt cagctcccca agatgatgtg tttttgctta ccctaagaga | 300 |
| ggttttcttc ttatttttag ataattcaag tgcttagata aattatgttt tctttaagtg | 360 |
| tttatggtaa actcttttaa agaaaattta atatgttata gctgaatctt tttggtaact | 420 |
| ttaaatcttt atcatagact ctgtacatat gttcaaatta gctgcttgcc tgatgtgtgt | 480 |
| atcatcgggtg ggatgacaga acaaacatat ttatgatcat gaataatgtg ctttgtaa | 538 |

<210> 312

<211> 176

<212> DNA

<213> Homo sapien

<400> 312

| | |
|---|-----|
| ggaggagcag ctgagagata gggtcagtga atgcggttca gctgctacc tctcctgtct | 60 |
| tcatagaacc attgccttag aattattgta tgacacgttt tttgttggtt aagctgtaag | 120 |
| gttttgttct ttgtgaacat gggatatttg aggggagggt ggagggagta gggaag | 176 |

<210> 313

<211> 396

<212> DNA

<213> Homo sapien

<400> 313

| | |
|--|-----|
| ccagcacccc caggccctgg gggacctggg ttctcagact gccaaagaag ccttgccatc | 60 |
| tggcgctccc atggctcttg caacatctcc ccttcgtttt tgaggggggtc atgccggggg | 120 |
| agccaccagc cctcactgg gttcggagga gagtcaggaa gggccaagca cgacaaagca | 180 |
| gaaacatcgg atttggggaa cgcgtgtcaa tcccttgtgc cgcagggctg ggaggagag | 240 |
| actgttctgt tcttgtgta actgtgtgc tgaaagacta cctcgttctt gtcttgatgt | 300 |
| gtcaccgggg caactgcctg gggcgggga tgggggcagg gtggaagcgg ctccccattt | 360 |
| tataccaaag gtgctacatc tatgtgatgg gtgggg | 396 |

<210> 314

<211> 311

<212> DNA

<213> Homo sapien

<400> 314

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| cctcaacatc | ctcagagagg | actggaagcc | agtccttacg | ataaactcca | taatttatgg | 60 |
| cctgcagtat | ctcttcttgg | agcccaaccc | cgaggaccca | ctgaacaagg | aggccgcaga | 120 |
| ggtcctgcag | aacaaccggc | ggctgtttga | gcagaacgtg | cagcgctcca | tgcgggggtg | 180 |
| ctacatcggc | tccacctact | ttgagcgctg | cctgaaatag | ggttggcgca | taccaccccc | 240 |
| cgccacggcc | acaagccctg | gcacccctg | caaatattta | ttggggggcca | tgggtagggg | 300 |
| tttggggggc | g | | | | | 311 |

<210> 315

<211> 336

<212> DNA

<213> Homo sapien

<400> 315

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| tttagaacat | ggttatcatc | caagactact | ctaccctgca | acattgaact | cccaagagca | 60 |
| aatccacatt | cctcttgagt | tctgcagctt | ctgtgtaaat | agggcagctg | tcgtctatgc | 120 |
| cgtagaatca | catgatctga | ggaccattca | tggaaagctgc | taaatagcct | agtctgggga | 180 |
| gtcttccata | aagttttgca | tggagcaaac | aaacaggatt | aaactagggt | tggttccttc | 240 |
| agccctctaa | aagcataggg | cttagcctgc | aggcttcctt | gggctttctc | tgtgtgtgta | 300 |
| gttttgtaaa | cactatagca | tctgttaaga | tccagt | | | 336 |

<210> 316

<211> 436

<212> DNA

<213> Homo sapien

<400> 316

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| aacatggctt | gcgtgcctta | agagagacgc | ttcctgcaga | acaggacctg | actacaaaga | 60 |
| atgtttccat | tggaaattgtt | ggtaaagact | tggagtttac | aatctatgat | gatgatgatg | 120 |
| tgtctccatt | cctggaaggt | cttgaagaaa | gaccacagag | aaaggcacag | cctgctcaac | 180 |
| ctgctgatga | acctgcagaa | aaggctgatg | aaccaatgga | acattaagtg | ataagccagt | 240 |
| ctatatatgt | attatcaaat | atgtaagaat | acaggcacca | catactgatg | acaataatct | 300 |
| atactttgaa | ccaaaagttg | cagagtgggtg | gaatgctatg | ttttaggaat | cagtcagat | 360 |
| gtgagttttt | tccaagcaac | ctcactgaaa | cctatataat | ggaatacatt | tttctttgaa | 420 |
| agggtctgta | taatca | | | | | 436 |

<210> 317

<211> 196

<212> DNA

<213> Homo sapien

<400> 317

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| tattccttgt | gaagatgata | tactatTTTT | gttaagcgtg | tctgtattta | tgtgtgagga | 60 |
| gctgctggct | tgcagtgcgc | gtgcacgtgg | agagctgggtg | cccggagatt | ggacggcctg | 120 |
| atgtccctc | ccctgcctg | gtccagggaa | gctggccgag | ggtcctggct | cctgaggggc | 180 |
| atctgcccct | ccccca | | | | | 196 |

<210> 318

<211> 381

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(381)
 <223> n = A,T,C or G

<400> 318
 gacgcttnng ccgtaacgat gatcggagac atcctgctgt tcgggacgtt gctgatgaat 60
 gccggggcgg tgctgaactt taagctgaaa aagaaggaca cncagggctt tggggaggag 120
 tncagggagc ccaacacagg tgacaacatc cgggaattct tgctgancct cagatacttt 180
 cnaatcttca tcncctgtg gaacatcttc atgatgttct gcatgattgt gctgntcggc 240
 tcttgaatcc cancgatgaa accannaact cactttcccg ggatgccgan tctccattcc 300
 tccattcctg atgacttcaa naatgttttt gaccaaaaaa ccgacaacct tcccagaaag 360
 tccaagctcg tgggtggngg a 381

<210> 319
 <211> 506
 <212> DNA
 <213> Homo sapien

<400> 319
 ctaagcttta cgaatggggt gacaacttat gataaaaact agagctagtg aattagccta 60
 tttgtaaata cctttgttat aattgatagg atacatcttg gacatggaat tgttaagcca 120
 cctctgagca gtgtatgtca ggacttgctc attaggttgg cagcagaggg gcagaaggaa 180
 ttatacaggt agagatgtat gcagatgtgt ccatatatgt ccatatttac attttgatag 240
 ccattgatgt atgcatctct tggctgtact ataagaacac attaatcaa tggaaataca 300
 ctttgcta attttaattg tatagatctg ctaatgaatt ctcttaaaaa catactgtat 360
 tctgttgctg tgtgtttcat tttaaattga gcattaaggg aatgcagcat ttaaatcaga 420
 actctgccaa tgcttttatc tagaggcgtg ttgccatttt tgtcttatat gaaatttctg 480
 tccaagaaa ggcaggatta catctt 506

<210> 320
 <211> 351
 <212> DNA
 <213> Homo sapien

<400> 320
 ctgacctgca ggacgaaacc atgaagagcc tgatccttct tgccatcctg gccgccttag 60
 cggtagtaac tttgtgttat gaatcacatg aaagcatgga atcttatgaa cttaatccct 120
 tcattaacag gagaaatgca aataccttca tateccctca gcagagatgg agagctaaaag 180
 tccaagagag gatccgagaa cgctctaagc ctgtccacga gctcaatagg gaagcctgtg 240
 atgactacag actttgcgaa cgctacgcca tggtttatgg atacaatgct gcctataatc 300
 gctacttcag gaagcgccga gggaccaa at gagactgagg gaagaaaaaa a 351

<210> 321
 <211> 421
 <212> DNA
 <213> Homo sapien

<400> 321
 ctcgaggcgg ttcagctgct tcaagatgaa gctgaacatc tccttcccag ccactggctg 60
 ccagaaactc attgaagtgg acgatgaacg caaacttcgt actttctatg agaagcgtat 120
 ggccacagaa gttgctgctg acgctctggg tgaagaatgg aagggttatg tggtcggaat 180
 cagtgggtggg aacgacaaac aagggttccc catgaagcag ggtgtcttga cccatggccg 240
 tgtccgcctg ctactgagta aggggcattc ctgttacaga ccaaggagaa ctggagaaag 300
 aaagagaaaa tcagttcgtg gttgcattgt ggatgcaaat ctgagcgttc tcaacttggt 360

tattgtaaaa aaaggagaga aggatattcc tggactgact gatactacag tgcctcgccg 420
c 421

<210> 322
<211> 521
<212> DNA
<213> Homo sapien

<400> 322
agcagctctc ctgccacagc tcctcacccc ctgaaaatgt tcgcctgctc caagtttgtc 60
tccactccct ccttgggtcaa gagcacctca cagctgctga gccgtccgct atctgcagtg 120
gtgctgaaac gaccggagat actgacagat gagagcctca gcagcttggc agtctcatgt 180
ccccttacct cacttgtctc tagccgcagc ttccaaacca gcgccatttc aaggacatc 240
gacacagcag ccaagttcat tggagctggg gctgccacag ttgggggtggc tggttctggg 300
gctgggattg gaactgtgtt tgggagcctc atcattgggt atgccaggaa cctttctctg 360
aagcaacagc tcttctccta cgccattctg ggctttgccc tctcgaggc catggggctc 420
ttttgtctga tggtagcctt tctcactctc tttgccatgt gaaggagccg tctccacctc 480
ccatagtctt ccgcgctctg gttggccccg tgtgttcctt t 521

<210> 323
<211> 435
<212> DNA
<213> Homo sapien

<400> 323
ccgaggtcgc acgcgtgaga cttctccgcc gcagacgccg ccgcgatgcg ctacgtcgcc 60
tcctacctgc tggctgccct agggggcaac tcctcccca gcgccaagga catcaagaag 120
atcttggaca gcgtgggtat cgaggcggac gacgaccggc tcaacaaggt tatcagtgag 180
ctgaatggaa aaaacattga agacgtcatt gcccagggtt ttggcaagct tgccagtgtg 240
cctgctgggtg gggctgtagc cgtctctgct gccccaggct ctgcagcccc tgctgctggt 300
tctgccccctg ctgcagcaga ggagaagaaa gatgagaaga aggaggagtc tgaagagtca 360
gatgatgaca tgggatttgg cttttttgat taaattcctg ctccccctgca aataaagcct 420
ttttacacat ctcaa 435

<210> 324
<211> 521
<212> DNA
<213> Homo sapien

<400> 324
aggagatcga ctttcggtgc ccgcaagacc agggctggaa cgccgagatc acgctgcaga 60
tgggtgcagta caagaatcgt caggccatcc tggcgggtcaa atccacgcgg cagaagcagc 120
agcacctggt ccagcagcag cccccctcgc agccgcagcc gcagccgcag ctccagcccc 180
aaccacagcc tcagcctcag ccgcaacccc agccccaatc acaaccccag cctcagcccc 240
aaccacagcc tcagccccag cagctccacc cgtatccgca tccacatcca catccacact 300
ctcactctca ctgcaccca caccctcacc cgcacccgca tccgcaccaa ataccgcacc 360
cacacccaca gccgcactcg cagccgcacg ggcacccggt tctccgcagc acctccaact 420
ctgcctgaaa ggggcagctc ccgggcaaga caaggttttg aggacttgag gaagtgggac 480
gagcacattt ctattgtctt cacttggatc aaaagcaaaa c 521

<210> 325
<211> 451
<212> DNA
<213> Homo sapien

<400> 325
 attttcattt ccattaacct ggaagctttc atgaatattc tcttctttta aaacatttta 60
 acattattta aacagaaaaa gatgggctct ttctgggttag ttgttacatg atagcagaga 120
 tatttttact tagattactt tgggaatgag agattgttgt cttgaactct ggcactgtac 180
 agtgaatgtg tctgtagttg tgtagtttg cattaagcat gtataacatt caagtatgtc 240
 atccaaataa gaggcataata cattgaattg tttttaatcc tctgacaagt tgactcttcg 300
 acccccaccc ccaccaaga cattttaata gtaaataagag agagagagaa gagttaatga 360
 acatgaggta gtgttccact ggcaggatga cttttcaata gctcaaatca atttcagtgc 420
 ctttatcact tgaattatta acttaatttg a 451

<210> 326
 <211> 421
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(421)
 <223> n = A,T,C or G

<400> 326
 cgcggtcgtg agggctgagg atttttggtc cgcacgctcc tgctcctgac tcaccgctgt 60
 tcgctctcgc cgaggaacaa gtcggtcagg aagcccgcgc gcaacagcca tggcttttaa 120
 ggataccgga aaaacacccg tggagccgga ggtggcaatt caccgaattc gaatcaccct 180
 aacaagccgc aacgtaaaat ccttggaata ggtgtgtgct gacttgataa gaggcgcaaa 240
 agaaaagaat ctcaaagtga aaggaccagt tcgaatgcct accaagactt tgagantcac 300
 tacaagaaaa actccttgtg gtgaagggtc taagacgtgg gatcgtttcc agatgagaat 360
 tcacaagcga ctcatgtact tgcacagtcc ttctgagatt gtaagcaga ttacttccat 420
 c 421

<210> 327
 <211> 456
 <212> DNA
 <213> Homo sapien

<400> 327
 atcttgacga ggctgcggtg tctgctgcta ttctccgagc ttgcgaatgc cgctaagga 60
 cgacaagaag aagaaggacg ctggaaagtc ggccaagaaa gacaaagacc cagtgaacaa 120
 atccgggggc aaggccaaaa agaagaagtg gtccaaaggc aaagttcggg acaagctcaa 180
 taacttagtc ttgtttgaca aagctaccta tgataaactc tgtaaggaag ttcccaacta 240
 taaacttata accccagctg tggctctctg gagactgaag attcgaggct ccttggccag 300
 ggcagccctt caggagctcc ttagtaaaagg acttatcaaa ctggtttcaa agcacagagc 360
 tcaagtaatt tacaccagaa ataccaaggg tggagatgct ccagctgctg gtgaagatgc 420
 atgaataggt ccaaccagct gtacatttgg aaaaat 456

<210> 328
 <211> 471
 <212> DNA
 <213> Homo sapien

<400> 328
 gtggaagtga catcgtcttt aaaccctgcy tggcaatccc tgacgcaccg ccgtgatgcc 60
 caggaagac agggcgacct ggaagtccaa ctacttcctt aagatcatcc aactattgga 120

```

tgattatccg aaatgtttca ttgtgggagc agacaatgtg ggctccaagc agatgcagca 180
gatccgcattg tcccttcgcg ggaaggctgt ggtgctgatg ggcaagaaca ccatgatgcg 240
caaggccatc cgagggcacc tggaaaaaaa cccagctctg gagaaactgc tgcctcatat 300
ccgggggaat gtgggctttg tgttcaccaa ggaggacctc actgagatca gggacatgtt 360
gctggccaat aaggtgccag ctgctgcccg tgctgggtgcc attgccccat gtgaagtcac 420
tgtgccagcc cagaacactg gtctcgggcc cgagaagacc tcctttttcc a 471

```

```

<210> 329
<211> 278
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G

```

```

<400> 329
gtttaaactt aagcttggtg ccgagctcgg atccactagt ccagtgtggt ggaattctag 60
aaattgagat gcccccccag gccagcaaat gttccttttt gttcaaagtc tatttttatt 120
ccttgatatt tttctttttt tttttttttt ttngggatgg ggacttgtga attttttctaa 180
aggtgctatt taacatggga gganagcgtg tgcggctcca gccagcccg ctgctcactt 240
tccacctctt ctccacctgc ctctggcttc tcaggcct 278

```

```

<210> 330
<211> 338
<212> DNA
<213> Homo sapien

```

```

<400> 330
ctcaggcttc aacatcgaat acgccgcagg ccccttcgcc ctattcttca tagccgaata 60
cacaacattt attataataa acaccctcac cactacaatc ttcctaggaa caacatatga 120
cgcactctcc cctgaactct acacaacata tttgtccacc aagaccctac ttctaacctc 180
cctgtttctt tgaattcgaa cagcataccc ccgattccgc tacgaccaac tcatacacct 240
cctatgaaaa aacttcctac cactaccctc agcattactt atatgatatg tctccatacc 300
cattacaatc tccagcattc cccctcaaac ctaaaaaa 338

```

```

<210> 331
<211> 2820
<212> DNA
<213> Homo sapiens

```

```

<400> 331
tggcaaaatc ctggagccag aagaaaggac agcagcattg atcaatctta cagctaacat 60
gttgtagctg gaaaacaatg cccagactca atttagtgag ccacagtaca cgaacctggg 120
gtcctgaac agcatggacc agcagattcg gaacggctcc tcgtccacca gtccctataa 180
cacagaccac gcgcagaaca gcgtcacggc gccctcgccc tacgcacagc ccagccccac 240
cttcgatgct ctctctccat caccgcccac cccctccaac accgactacc caggccccga 300
cagttccgag gtgtccttcc agcagtcgag caccgccaag tcggccacct ggacgtattc 360
cactgaactg aagaaactct actgccaaat tgcaaagaca tgccccatcc agatcaaggt 420
gatgacccca cctcctcagg gagctgttat tcgcgccatg cctgtctaca aaaaagctga 480
gcacgtcacg gaggtggtga agcgggtgcc caaccatgag ctgagccgtg agttcaacga 540
gggacagatt gccctccta gtcatttgat tcgagtagag gggaacagcc atgcccagta 600

```

tgtagaagat cccatcacag gaagacagag tgtgctggta ccttatgagc caccgccaggt 660
 tggcactgaa ttcacgacag tcttgtacaa tttcatgtgt aacagcagtt gtgttggagg 720
 gatgaaccgc cgtccaattt taatcattgt tactctggaa accagagatg ggcaagtcct 780
 gggccgacgc tgctttgagg cccgatctg tgcttgccca ggaagagaca ggaaggcgga 840
 tgaagatagc atcagaaagc agcaagtttc ggacagtaca aagaacggtg atggtacgaa 900
 gcgcccgttt cgtcagaaca cacatggtat ccagatgaca tccatcaaga aacgaagatc 960
 cccagatgat gaactgttat acttaccagt gaggggccgt gagacttatg aaatgctgtt 1020
 gaagatcaaa gagtccctgg aactcatgca gtaccttcct cagcacacaa ttgaaacgta 1080
 caggcaacag caacagcagc agcaccagca cttacttcag aaacagacct caatacagtc 1140
 tccatcttca tatggtaaca gctccccacc tctgaacaaa atgaacagca tgaacaagct 1200
 gccttctgtg agccagctta tcaaccctca gcagcgcaac gccctcactc ctacaacat 1260
 tctgatggc atgggagcca acattcccat gatgggcacc cacatgccaa tggctggaga 1320
 catgaatgga ctacgccccca cccaggcact cctccccca ctctccatgc catccacctc 1380
 ccaactgcaca cccccacctc cgtatcccac agattgcagc attgtcagtt tcttagcgag 1440
 gttgggctgt tcatcatgtc tggactattt cacgaccagc gggctgacca ccatctatca 1500
 gattgagcat tactccatgg atgatctggc aagtctgaaa atccctgagc aatttcgaca 1560
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 <213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<400> 336

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gtgatgaccc cacctcctca gggagctgtt atccgcgcc tgccctgtcta caaaaaagct 420
gagcacgtca cggaggtggt gaagcgggtg cccaaccatg agctgagccg tgaattcaac 480
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gatgaagata gcatcagaaa gcagcaagtt tcggacagta caaagaacgg tgatggtacg 840
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tcccagatg atgaactgtt ataactacca gtgaggggcc gtgagactta tgaaatgctg 960
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gacatgaatg gactcagccc caccagga ctcctcccc cactctccat gccatccacc 1320
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gtctga                                     1386

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<210> 337
 <211> 1551
 <212> DNA
 <213> Homo sapiens

<400> 337

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ccatcagaag atggtgcgac aaacaagatt gagattagca tggactgtat ccgcatgcag 180
gactcggacc tgagtgaccc catgtggcca cagtacacga acctggggct cctgaacagc 240
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cagaacagcg tcacggcgcc ctgcacctac gcacagccca gctccacctt cgatgctctc 360
tctccatcac ccgccatccc ctccaacacc gactaccag gcccgcacag tttcgacgtg 420
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gtggtgaagc ggtgccccaa ccatgagctg agccgtgaat tcaacgaggg acagattgcc 660
cctcctagtc atttgattcg agtagagggt aacagccatg cccagtatgt agaagatccc 720
atcacaggaa gacagagtg gctggtagct tatgagccac cccaggttg cactgaattc 780
acgacagtct tgtacaattt catgtgtaac agcagttgtg ttggagggat gaaccgccgt 840

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ccaatttttaa tcattgttac tctggaaacc agagatgggc aagtcctggg ccgacgctgc 900
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<210> 338

<211> 586

<212> PRT

<213> Homo sapiens

<400> 338

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Tyr Thr Asn Leu Gly Leu Leu Asn Ser Met Asp Gln Gln Ile Arg Asn
      20                      25                      30

Gly Ser Ser Ser Thr Ser Pro Tyr Asn Thr Asp His Ala Gln Asn Ser
      35                      40                      45

Val Thr Ala Pro Ser Pro Tyr Ala Gln Pro Ser Pro Thr Phe Asp Ala
      50                      55                      60

Leu Ser Pro Ser Pro Ala Ile Pro Ser Asn Thr Asp Tyr Pro Gly Pro
      65                      70                      75                      80

His Ser Ser Asp Val Ser Phe Gln Gln Ser Ser Thr Ala Lys Ser Ala
      85                      90                      95

Thr Trp Thr Tyr Ser Thr Glu Leu Lys Lys Leu Tyr Cys Gln Ile Ala
      100                     105                     110

Lys Thr Cys Pro Ile Gln Ile Lys Val Met Thr Pro Pro Pro Gln Gly
      115                     120                     125

Ala Val Ile Arg Ala Met Pro Val Tyr Lys Lys Ala Glu His Val Thr
      130                     135                     140

Glu Val Val Lys Arg Cys Pro Asn His Glu Leu Ser Arg Glu Phe Asn
      145                     150                     155                     160

Glu Gly Gln Ile Ala Pro Pro Ser His Leu Ile Arg Val Glu Gly Asn
      165                     170                     175

Ser His Ala Gln Tyr Val Glu Asp Pro Ile Thr Gly Arg Gln Ser Val
      180                     185                     190

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CCDS:CCDS338.1

Leu Val Pro Tyr Glu Pro Pro Gln Val Gly Thr Glu Phe Thr Thr Val
 195 200 205
 Leu Tyr Asn Phe Met Cys Asn Ser Ser Cys Val Gly Gly Met Asn Arg
 210 215 220
 Arg Pro Ile Leu Ile Ile Val Thr Leu Glu Thr Arg Asp Gly Gln Val
 225 230 235 240
 Leu Gly Arg Arg Cys Phe Glu Ala Arg Ile Cys Ala Cys Pro Gly Arg
 245 250 255
 Asp Arg Lys Ala Asp Glu Asp Ser Ile Arg Lys Gln Gln Val Ser Asp
 260 265 270
 Ser Thr Lys Asn Gly Asp Gly Thr Lys Arg Pro Phe Arg Gln Asn Thr
 275 280 285
 His Gly Ile Gln Met Thr Ser Ile Lys Lys Arg Arg Ser Pro Asp Asp
 290 295 300
 Glu Leu Leu Tyr Leu Pro Val Arg Gly Arg Glu Thr Tyr Glu Met Leu
 305 310 315 320
 Leu Lys Ile Lys Glu Ser Leu Glu Leu Met Gln Tyr Leu Pro Gln His
 325 330 335
 Thr Ile Glu Thr Tyr Arg Gln Gln Gln Gln Gln His Gln His Leu
 340 345 350
 Leu Gln Lys Gln Thr Ser Ile Gln Ser Pro Ser Ser Tyr Gly Asn Ser
 355 360 365
 Ser Pro Pro Leu Asn Lys Met Asn Ser Met Asn Lys Leu Pro Ser Val
 370 375 380
 Ser Gln Leu Ile Asn Pro Gln Gln Arg Asn Ala Leu Thr Pro Thr Thr
 385 390 395 400
 Ile Pro Asp Gly Met Gly Ala Asn Ile Pro Met Met Gly Thr His Met
 405 410 415
 Pro Met Ala Gly Asp Met Asn Gly Leu Ser Pro Thr Gln Ala Leu Pro
 420 425 430
 Pro Pro Leu Ser Met Pro Ser Thr Ser His Cys Thr Pro Pro Pro Pro
 435 440 445
 Tyr Pro Thr Asp Cys Ser Ile Val Ser Phe Leu Ala Arg Leu Gly Cys
 450 455 460
 Ser Ser Cys Leu Asp Tyr Phe Thr Thr Gln Gly Leu Thr Thr Ile Tyr
 465 470 475 480

Asn Thr Asp Tyr Pro Gly Pro His Ser Phe Asp Val Ser Phe Gln Gln
130 135 140

Ser Ser Thr Ala Lys Ser Ala Thr Trp Thr Tyr Ser Thr Glu Leu Lys
 145 150 155 160
 Lys Leu Tyr Cys Gln Ile Ala Lys Thr Cys Pro Ile Gln Ile Lys Val
 165 170 175
 Met Thr Pro Pro Pro Gln Gly Ala Val Ile Arg Ala Met Pro Val Tyr
 180 185 190
 Lys Lys Ala Glu His Val Thr Glu Val Val Lys Arg Cys Pro Asn His
 195 200 205
 Glu Leu Ser Arg Glu Phe Asn Glu Gly Gln Ile Ala Pro Pro Ser His
 210 215 220
 Leu Ile Arg Val Glu Gly Asn Ser His Ala Gln Tyr Val Glu Asp Pro
 225 230 235 240
 Ile Thr Gly Arg Gln Ser Val Leu Val Pro Tyr Glu Pro Pro Gln Val
 245 250 255
 Gly Thr Glu Phe Thr Thr Val Leu Tyr Asn Phe Met Cys Asn Ser Ser
 260 265 270
 Cys Val Gly Gly Met Asn Arg Arg Pro Ile Leu Ile Ile Val Thr Leu
 275 280 285
 Glu Thr Arg Asp Gly Gln Val Leu Gly Arg Arg Cys Phe Glu Ala Arg
 290 295 300
 Ile Cys Ala Cys Pro Gly Arg Asp Arg Lys Ala Asp Glu Asp Ser Ile
 305 310 315 320
 Arg Lys Gln Gln Val Ser Asp Ser Thr Lys Asn Gly Asp Gly Thr Lys
 325 330 335
 Arg Pro Phe Arg Gln Asn Thr His Gly Ile Gln Met Thr Ser Ile Lys
 340 345 350
 Lys Arg Arg Ser Pro Asp Asp Glu Leu Leu Tyr Leu Pro Val Arg Gly
 355 360 365
 Arg Glu Thr Tyr Glu Met Leu Leu Lys Ile Lys Glu Ser Leu Glu Leu
 370 375 380
 Met Gln Tyr Leu Pro Gln His Thr Ile Glu Thr Tyr Arg Gln Gln Gln
 385 390 395 400
 Gln Gln Gln His Gln His Leu Leu Gln Lys Gln Thr Ser Ile Gln Ser
 405 410 415
 Pro Ser Ser Tyr Gly Asn Ser Ser Pro Pro Leu Asn Lys Met Asn Ser
 420 425 430

Met Asn Lys Leu Pro Ser Val Ser Gln Leu Ile Asn Pro Gln Gln Arg
 435 440 445
 Asn Ala Leu Thr Pro Thr Thr Ile Pro Asp Gly Met Gly Ala Asn Ile
 450 455 460
 Pro Met Met Gly Thr His Met Pro Met Ala Gly Asp Met Asn Gly Leu
 465 470 475 480
 Ser Pro Thr Gln Ala Leu Pro Pro Pro Leu Ser Met Pro Ser Thr Ser
 485 490 495
 His Cys Thr Pro Pro Pro Tyr Pro Thr Asp Cys Ser Ile Val Gly
 500 505 510
 Phe Leu Ala Arg Leu Gly Cys Ser Ser Cys Leu Asp Tyr Phe Thr Thr
 515 520 525
 Gln Gly Leu Thr Thr Ile Tyr Gln Ile Glu His Tyr Ser Met Asp Asp
 530 535 540
 Leu Ala Ser Leu Lys Ile Pro Glu Gln Phe Arg His Ala Ile Trp Lys
 545 550 555 560
 Gly Ile Leu Asp His Arg Gln Leu His Glu Phe Ser Ser Pro Ser His
 565 570 575
 Leu Leu Arg Thr Pro Ser Ser Ala Ser Thr Val Ser Val Gly Ser Ser
 580 585 590
 Glu Thr Arg Gly Glu Arg Val Ile Asp Ala Val Arg Phe Thr Leu Arg
 595 600 605
 Gln Thr Ile Ser Phe Pro Pro Arg Asp Glu Trp Asn Asp Phe Asn Phe
 610 615 620
 Asp Met Asp Ala Arg Arg Asn Lys Gln Gln Arg Ile Lys Glu Glu Gly
 625 630 635 640
 Glu

<210> 340
 <211> 448
 <212> PRT
 <213> Homo sapiens

<400> 340
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 5 10 15
 Gln His Ile Trp Asp Phe Leu Glu Gln Pro Ile Cys Ser Val Gln Pro
 20 25 30

Ile Asp Leu Asn Phe Val Asp Glu Pro Ser Glu Asp Gly Ala Thr Asn
 35 40 45
 Lys Ile Glu Ile Ser Met Asp Cys Ile Arg Met Gln Asp Ser Asp Leu
 50 55 60
 Ser Asp Pro Met Trp Pro Gln Tyr Thr Asn Leu Gly Leu Leu Asn Ser
 65 70 75 80
 Met Asp Gln Gln Ile Gln Asn Gly Ser Ser Ser Thr Ser Pro Tyr Asn
 85 90 95
 Thr Asp His Ala Gln Asn Ser Val Thr Ala Pro Ser Pro Tyr Ala Gln
 100 105 110
 Pro Ser Ser Thr Phe Asp Ala Leu Ser Pro Ser Pro Ala Ile Pro Ser
 115 120 125
 Asn Thr Asp Tyr Pro Gly Pro His Ser Phe Asp Val Ser Phe Gln Gln
 130 135 140
 Ser Ser Thr Ala Lys Ser Ala Thr Trp Thr Tyr Ser Thr Glu Leu Lys
 145 150 155 160
 Lys Leu Tyr Cys Gln Ile Ala Lys Thr Cys Pro Ile Gln Ile Lys Val
 165 170 175
 Met Thr Pro Pro Pro Gln Gly Ala Val Ile Arg Ala Met Pro Val Tyr
 180 185 190
 Lys Lys Ala Glu His Val Thr Glu Val Val Lys Arg Cys Pro Asn His
 195 200 205
 Glu Leu Ser Arg Glu Phe Asn Glu Gly Gln Ile Ala Pro Pro Ser His
 210 215 220
 Leu Ile Arg Val Glu Gly Asn Ser His Ala Gln Tyr Val Glu Asp Pro
 225 230 235 240
 Ile Thr Gly Arg Gln Ser Val Leu Val Pro Tyr Glu Pro Pro Gln Val
 245 250 255
 Gly Thr Glu Phe Thr Thr Val Leu Tyr Asn Phe Met Cys Asn Ser Ser
 260 265 270
 Cys Val Gly Gly Met Asn Arg Arg Pro Ile Leu Ile Ile Val Thr Leu
 275 280 285
 Glu Thr Arg Asp Gly Gln Val Leu Gly Arg Arg Cys Phe Glu Ala Arg
 290 295 300
 Ile Cys Ala Cys Pro Gly Arg Asp Arg Lys Ala Asp Glu Asp Ser Ile
 305 310 315 320

Arg Lys Gln Gln Val Ser Asp Ser Thr Lys Asn Gly Asp Gly Thr Lys
325 330 335

Arg Pro Phe Arg Gln Asn Thr His Gly Ile Gln Met Thr Ser Ile Lys
340 345 350

Lys Arg Arg Ser Pro Asp Asp Glu Leu Leu Tyr Leu Pro Val Arg Gly
355 360 365

Arg Glu Thr Tyr Glu Met Leu Leu Lys Ile Lys Glu Ser Leu Glu Leu
370 375 380

Met Gln Tyr Leu Pro Gln His Thr Ile Glu Thr Tyr Arg Gln Gln Gln
385 390 395 400

Gln Gln Gln His Gln His Leu Leu Gln Lys His Leu Leu Ser Ala Cys
405 410 415

Phe Arg Asn Glu Leu Val Glu Pro Arg Arg Glu Thr Pro Lys Gln Ser
420 425 430

Asp Val Phe Phe Arg His Ser Lys Pro Pro Asn Arg Ser Val Tyr Pro
435 440 445

<210> 341

<211> 356

<212> PRT

<213> Homo sapiens

<400> 341

Met Leu Tyr Leu Glu Asn Asn Ala Gln Thr Gln Phe Ser Glu Pro Gln
5 10 15

Tyr Thr Asn Leu Gly Leu Leu Asn Ser Met Asp Gln Gln Ile Gln Asn
20 25 30

Gly Ser Ser Ser Thr Ser Pro Tyr Asn Thr Asp His Ala Gln Asn Ser
35 40 45

Val Thr Ala Pro Ser Pro Tyr Ala Gln Pro Ser Ser Thr Phe Asp Ala
50 55 60

Leu Ser Pro Ser Pro Ala Ile Pro Ser Asn Thr Asp Tyr Pro Gly Pro
65 70 75 80

His Ser Phe Asp Val Ser Phe Gln Gln Ser Ser Thr Ala Lys Ser Ala
85 90 95

Thr Trp Thr Tyr Ser Thr Glu Leu Lys Lys Leu Tyr Cys Gln Ile Ala
100 105 110

Lys Thr Cys Pro Ile Gln Ile Lys Val Met Thr Pro Pro Pro Gln Gly
115 120 125

Ala Val Ile Arg Ala Met Pro Val Tyr Lys Lys Ala Glu His Val Thr
 130 135 140
 Glu Val Val Lys Arg Cys Pro Asn His Glu Leu Ser Arg Glu Phe Asn
 145 150 155 160
 Glu Gly Gln Ile Ala Pro Pro Ser His Leu Ile Arg Val Glu Gly Asn
 165 170 175
 Ser His Ala Gln Tyr Val Glu Asp Pro Ile Thr Gly Arg Gln Ser Val
 180 185 190
 Leu Val Pro Tyr Glu Pro Pro Gln Val Gly Thr Glu Phe Thr Thr Val
 195 200 205
 Leu Tyr Asn Phe Met Cys Asn Ser Ser Cys Val Gly Gly Met Asn Arg
 210 215 220
 Arg Pro Ile Leu Ile Ile Val Thr Leu Glu Thr Arg Asp Gly Gln Val
 225 230 235 240
 Leu Gly Arg Arg Cys Phe Glu Ala Arg Ile Cys Ala Cys Pro Gly Arg
 245 250 255
 Asp Arg Lys Ala Asp Glu Asp Ser Ile Arg Lys Gln Gln Val Ser Asp
 260 265 270
 Ser Thr Lys Asn Gly Asp Gly Thr Lys Arg Pro Ser Arg Gln Asn Thr
 275 280 285
 His Gly Ile Gln Met Thr Ser Ile Lys Lys Arg Arg Ser Pro Asp Asp
 290 295 300
 Glu Leu Leu Tyr Leu Pro Val Arg Gly Arg Glu Thr Tyr Glu Met Leu
 305 310 315 320
 Leu Lys Ile Lys Glu Ser Leu Glu Leu Met Gln Tyr Leu Pro Gln His
 325 330 335
 Thr Ile Glu Thr Tyr Arg Gln Gln Gln Gln Gln His Gln His Leu
 340 345 350
 Leu Gln Lys Gln
 355
 <210> 342
 <211> 680
 <212> PRT
 <213> Homo sapiens
 <400> 342
 Met Asn Phe Glu Thr Ser Arg Cys Ala Thr Leu Gln Tyr Cys Pro Asp
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Pro Tyr Ile Gln Arg Phe Val Glu Thr Pro Ala His Phe Ser Trp Lys
 20 25 30
 Glu Ser Tyr Tyr Arg Ser Thr Met Ser Gln Ser Thr Gln Thr Asn Glu
 35 40 45
 Phe Leu Ser Pro Glu Val Phe Gln His Ile Trp Asp Phe Leu Glu Gln
 50 55 60
 Pro Ile Cys Ser Val Gln Pro Ile Asp Leu Asn Phe Val Asp Glu Pro
 65 70 75 80
 Ser Glu Asp Gly Ala Thr Asn Lys Ile Glu Ile Ser Met Asp Cys Ile
 85 90 95
 Arg Met Gln Asp Ser Asp Leu Ser Asp Pro Met Trp Pro Gln Tyr Thr
 100 105 110
 Asn Leu Gly Leu Leu Asn Ser Met Asp Gln Gln Ile Gln Asn Gly Ser
 115 120 125
 Ser Ser Thr Ser Pro Tyr Asn Thr Asp His Ala Gln Asn Ser Val Thr
 130 135 140
 Ala Pro Ser Pro Tyr Ala Gln Pro Ser Ser Thr Phe Asp Ala Leu Ser
 145 150 155 160
 Pro Ser Pro Ala Ile Pro Ser Asn Thr Asp Tyr Pro Gly Pro His Ser
 165 170 175
 Phe Asp Val Ser Phe Gln Gln Ser Ser Thr Ala Lys Ser Ala Thr Trp
 180 185 190
 Thr Tyr Ser Thr Glu Leu Lys Lys Leu Tyr Cys Gln Ile Ala Lys Thr
 195 200 205
 Cys Pro Ile Gln Ile Lys Val Met Thr Pro Pro Pro Gln Gly Ala Val
 210 215 220
 Ile Arg Ala Met Pro Val Tyr Lys Lys Ala Glu His Val Thr Glu Val
 225 230 235 240
 Val Lys Arg Cys Pro Asn His Glu Leu Ser Arg Glu Phe Asn Glu Gly
 245 250 255
 Gln Ile Ala Pro Pro Ser His Leu Ile Arg Val Glu Gly Asn Ser His
 260 265 270
 Ala Gln Tyr Val Glu Asp Pro Ile Thr Gly Arg Gln Ser Val Leu Val
 275 280 285
 Pro Tyr Glu Pro Pro Gln Val Gly Thr Glu Phe Thr Thr Val Leu Tyr
 290 295 300

Asn Phe Met Cys Asn Ser Ser Cys Val Gly Gly Met Asn Arg Arg Pro
 305 310 315 320
 Ile Leu Ile Ile Val Thr Leu Glu Thr Arg Asp Gly Gln Val Leu Gly
 325 330 335
 Arg Arg Cys Phe Glu Ala Arg Ile Cys Ala Cys Pro Gly Arg Asp Arg
 340 345 350
 Lys Ala Asp Glu Asp Ser Ile Arg Lys Gln Gln Val Ser Asp Ser Thr
 355 360 365
 Lys Asn Gly Asp Gly Thr Lys Arg Pro Phe Arg Gln Asn Thr His Gly
 370 375 380
 Ile Gln Met Thr Ser Ile Lys Lys Arg Arg Ser Pro Asp Asp Glu Leu
 385 390 395 400
 Leu Tyr Leu Pro Val Arg Gly Arg Glu Thr Tyr Glu Met Leu Leu Lys
 405 410 415
 Ile Lys Glu Ser Leu Glu Leu Met Gln Tyr Leu Pro Gln His Thr Ile
 420 425 430
 Glu Thr Tyr Arg Gln Gln Gln Gln Gln His Gln His Leu Leu Gln
 435 440 445
 Lys Gln Thr Ser Ile Gln Ser Pro Ser Ser Tyr Gly Asn Ser Ser Pro
 450 455 460
 Pro Leu Asn Lys Met Asn Ser Met Asn Lys Leu Pro Ser Val Ser Gln
 465 470 475 480
 Leu Ile Asn Pro Gln Gln Arg Asn Ala Leu Thr Pro Thr Thr Ile Pro
 485 490 495
 Asp Gly Met Gly Ala Asn Ile Pro Met Met Gly Thr His Met Pro Met
 500 505 510
 Ala Gly Asp Met Asn Gly Leu Ser Pro Thr Gln Ala Leu Pro Pro Pro
 515 520 525
 Leu Ser Met Pro Ser Thr Ser Gln Cys Thr Pro Pro Pro Tyr Pro
 530 535 540
 Thr Asp Cys Ser Ile Val Ser Phe Leu Ala Arg Leu Gly Cys Ser Ser
 545 550 555 560
 Cys Leu Asp Tyr Phe Thr Thr Gln Gly Leu Thr Thr Ile Tyr Gln Ile
 565 570 575
 Glu His Tyr Ser Met Asp Asp Leu Ala Ser Leu Lys Ile Pro Glu Gln
 580 585 590

Phe Arg His Ala Ile Trp Lys Gly Ile Leu Asp His Arg Gln Leu His
595 600 605

Glu Phe Ser Ser Pro Ser His Leu Leu Arg Thr Pro Ser Ser Ala Ser
610 615 620

Thr Val Ser Val Gly Ser Ser Glu Thr Arg Gly Glu Arg Val Ile Asp
625 630 635 640

Ala Val Arg Phe Thr Leu Arg Gln Thr Ile Ser Phe Pro Pro Arg Asp
645 650 655

Glu Trp Asn Asp Phe Asn Phe Asp Met Asp Ala Arg Arg Asn Lys Gln
660 665 670

Gln Arg Ile Lys Glu Glu Gly Glu
675 680

<210> 343

<211> 461

<212> PRT

<213> Homo sapiens

<400> 343

Met Leu Tyr Leu Glu Asn Asn Ala Gln Thr Gln Phe Ser Glu Pro Gln
5 10 15

Tyr Thr Asn Leu Gly Leu Leu Asn Ser Met Asp Gln Gln Ile Gln Asn
20 25 30

Gly Ser Ser Ser Thr Ser Pro Tyr Asn Thr Asp His Ala Gln Asn Ser
35 40 45

Val Thr Ala Pro Ser Pro Tyr Ala Gln Pro Ser Ser Thr Phe Asp Ala
50 55 60

Leu Ser Pro Ser Pro Ala Ile Pro Ser Asn Thr Asp Tyr Pro Gly Pro
65 70 75 80

His Ser Phe Asp Val Ser Phe Gln Gln Ser Ser Thr Ala Lys Ser Ala
85 90 95

Thr Trp Thr Tyr Ser Thr Glu Leu Lys Lys Leu Tyr Cys Gln Ile Ala
100 105 110

Lys Thr Cys Pro Ile Gln Ile Lys Val Met Thr Pro Pro Pro Gln Gly
115 120 125

Ala Val Ile Arg Ala Met Pro Val Tyr Lys Lys Ala Glu His Val Thr
130 135 140

Glu Val Val Lys Arg Cys Pro Asn His Glu Leu Ser Arg Glu Phe Asn
145 150 155 160

CCPDB

Glu Gly Gln Ile Ala Pro Pro Ser His Leu Ile Arg Val Glu Gly Asn
 165 170 175
 Ser His Ala Gln Tyr Val Glu Asp Pro Ile Thr Gly Arg Gln Ser Val
 180 185 190
 Leu Val Pro Tyr Glu Pro Pro Gln Val Gly Thr Glu Phe Thr Thr Val
 195 200 205
 Leu Tyr Asn Phe Met Cys Asn Ser Ser Cys Val Gly Gly Met Asn Arg
 210 215 220
 Arg Pro Ile Leu Ile Ile Val Thr Leu Glu Thr Arg Asp Gly Gln Val
 225 230 235 240
 Leu Gly Arg Arg Cys Phe Glu Ala Arg Ile Cys Ala Cys Pro Gly Arg
 245 250 255
 Asp Arg Lys Ala Asp Glu Asp Ser Ile Arg Lys Gln Gln Val Ser Asp
 260 265 270
 Ser Thr Lys Asn Gly Asp Gly Thr Lys Arg Pro Phe Arg Gln Asn Thr
 275 280 285
 His Gly Ile Gln Met Thr Ser Ile Lys Lys Arg Arg Ser Pro Asp Asp
 290 295 300
 Glu Leu Leu Tyr Leu Pro Val Arg Gly Arg Glu Thr Tyr Glu Met Leu
 305 310 315 320
 Leu Lys Ile Lys Glu Ser Leu Glu Leu Met Gln Tyr Leu Pro Gln His
 325 330 335
 Thr Ile Glu Thr Tyr Arg Gln Gln Gln Gln Gln His Gln His Leu
 340 345 350
 Leu Gln Lys Gln Thr Ser Ile Gln Ser Pro Ser Ser Tyr Gly Asn Ser
 355 360 365
 Ser Pro Pro Leu Asn Lys Met Asn Ser Met Asn Lys Leu Pro Ser Val
 370 375 380
 Ser Gln Leu Ile Asn Pro Gln Gln Arg Asn Ala Leu Thr Pro Thr Thr
 385 390 395 400
 Ile Pro Asp Gly Met Gly Ala Asn Ile Pro Met Met Gly Thr His Met
 405 410 415
 Pro Met Ala Gly Asp Met Asn Gly Leu Ser Pro Thr Gln Ala Leu Pro
 420 425 430
 Pro Pro Leu Ser Met Pro Ser Thr Ser His Cys Thr Pro Pro Pro Pro
 435 440 445

Tyr Pro Thr Asp Cys Ser Ile Val Arg Ile Trp Gln Val
 450 455 460

<210> 344

<211> 516

<212> PRT

<213> Homo sapiens

<400> 344

Met Ser Gln Ser Thr Gln Thr Asn Glu Phe Leu Ser Pro Glu Val Phe
 5 10 15

Gln His Ile Trp Asp Phe Leu Glu Gln Pro Ile Cys Ser Val Gln Pro
 20 25 30

Ile Asp Leu Asn Phe Val Asp Glu Pro Ser Glu Asp Gly Ala Thr Asn
 35 40 45

Lys Ile Glu Ile Ser Met Asp Cys Ile Arg Met Gln Asp Ser Asp Leu
 50 55 60

Ser Asp Pro Met Trp Pro Gln Tyr Thr Asn Leu Gly Leu Leu Asn Ser
 65 70 75 80

Met Asp Gln Gln Ile Gln Asn Gly Ser Ser Ser Thr Ser Pro Tyr Asn
 85 90 95

Thr Asp His Ala Gln Asn Ser Val Thr Ala Pro Ser Pro Tyr Ala Gln
 100 105 110

Pro Ser Ser Thr Phe Asp Ala Leu Ser Pro Ser Pro Ala Ile Pro Ser
 115 120 125

Asn Thr Asp Tyr Pro Gly Pro His Ser Phe Asp Val Ser Phe Gln Gln
 130 135 140

Ser Ser Thr Ala Lys Ser Ala Thr Trp Thr Tyr Ser Thr Glu Leu Lys
 145 150 155 160

Lys Leu Tyr Cys Gln Ile Ala Lys Thr Cys Pro Ile Gln Ile Lys Val
 165 170 175

Met Thr Pro Pro Pro Gln Gly Ala Val Ile Arg Ala Met Pro Val Tyr
 180 185 190

Lys Lys Ala Glu His Val Thr Glu Val Val Lys Arg Cys Pro Asn His
 195 200 205

Glu Leu Ser Arg Glu Phe Asn Glu Gly Gln Ile Ala Pro Pro Ser His
 210 215 220

Leu Ile Arg Val Glu Gly Asn Ser His Ala Gln Tyr Val Glu Asp Pro
 225 230 235 240

0123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899

Ile Thr Gly Arg Gln Ser Val Leu Val Pro Tyr Glu Pro Pro Gln Val
 245 250 255
 Gly Thr Glu Phe Thr Thr Val Leu Tyr Asn Phe Met Cys Asn Ser Ser
 260 265 270
 Cys Val Gly Gly Met Asn Arg Arg Pro Ile Leu Ile Ile Val Thr Leu
 275 280 285
 Glu Thr Arg Asp Gly Gln Val Leu Gly Arg Arg Cys Phe Glu Ala Arg
 290 295 300
 Ile Cys Ala Cys Pro Gly Arg Asp Arg Lys Ala Asp Glu Asp Ser Ile
 305 310 315 320
 Arg Lys Gln Gln Val Ser Asp Ser Thr Lys Asn Gly Asp Gly Thr Lys
 325 330 335
 Arg Pro Phe Arg Gln Asn Thr His Gly Ile Gln Met Thr Ser Ile Lys
 340 345 350
 Lys Arg Arg Ser Pro Asp Asp Glu Leu Leu Tyr Leu Pro Val Arg Gly
 355 360 365
 Arg Glu Thr Tyr Glu Met Leu Leu Lys Ile Lys Glu Ser Leu Glu Leu
 370 375 380
 Met Gln Tyr Leu Pro Gln His Thr Ile Glu Thr Tyr Arg Gln Gln Gln
 385 390 395 400
 Gln Gln Gln His Gln His Leu Leu Gln Lys Gln Thr Ser Ile Gln Ser
 405 410 415
 Pro Ser Ser Tyr Gly Asn Ser Ser Pro Pro Leu Asn Lys Met Asn Ser
 420 425 430
 Met Asn Lys Leu Pro Ser Val Ser Gln Leu Ile Asn Pro Gln Gln Arg
 435 440 445
 Asn Ala Leu Thr Pro Thr Thr Ile Pro Asp Gly Met Gly Ala Asn Ile
 450 455 460
 Pro Met Met Gly Thr His Met Pro Met Ala Gly Asp Met Asn Gly Leu
 465 470 475 480
 Ser Pro Thr Gln Ala Leu Pro Pro Pro Leu Ser Met Pro Ser Thr Ser
 485 490 495
 His Cys Thr Pro Pro Pro Pro Tyr Pro Thr Asp Cys Ser Ile Val Arg
 500 505 510
 Ile Trp Gln Val
 515

$\langle 400 \rangle$ 345

<210> 346

<211> 261

<212> PRT

<213> Homo sapiens

<400> 346

Met Asp Trp Gly Thr Leu His Thr Phe Ile Gly Gly Val Asn Lys His
5 10 15

Ser Thr Ser Ile Gly Lys Val Trp Ile Thr Val Ile Phe Ile Phe Arg
20 25 30

Val Met Ile Leu Val Val Ala Ala Gln Glu Val Trp Gly Asp Glu Gln

35 40 45
 Glu Asp Phe Val Cys Asn Thr Leu Gln Pro Gly Cys Lys Asn Val Cys
 50 55 60
 Tyr Asp His Phe Phe Pro Val Ser His Ile Arg Leu Trp Ala Leu Gln
 65 70 75 80
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| Glu | Lys | Ser | Ile | Thr | Ile | Leu | Ser | Thr | Pro | Glu | Gly | Thr | Ser | Ala | Ala | |
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 Val Gly Ala Ile Ile Gly Lys Gln Gly Gln His Ile Lys Gln Leu Ser
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 Lys Ala Gln Gly Arg Ile Tyr Gly Lys Ile Lys Glu Glu Asn Phe Val
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 Ser Pro Lys Glu Glu Val Lys Leu Glu Ala His Ile Arg Val Pro Ser
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 Pro Asp Glu Asn Asp Gln Val Val Val Lys Ile Thr Gly His Phe Tyr
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| ccgatcgggc | aggcgatggc | gategcgggc | cagatcaagc | ttcccaccgt | tcatatcggg | 180 |
| cctaccgcct | tctcgggctt | gggtgttgct | gacaacaacg | gcaacggcgc | acgagtccaa | 240 |
| cgcggtggtc | ggagcgctcc | ggcggcaagt | ctcggcatct | ccaccggcga | cgtgatcacc | 300 |
| gcggtcgacg | gcgctccgat | caactcggcc | accgcgatgg | cggacgcgct | taacgggcat | 360 |
| catcccggtg | acgtcatctc | ggtgacctgg | caaactcaat | cggggcggcac | gcgtacaggg | 420 |
| aacgtgacat | tggccgaggg | accccggcc | gaattcatgg | attggggggac | gctgcacact | 480 |
| ttcatcgggg | gtgtcaacaa | acactccacc | agcatcggga | aggtgtggat | cacagtcatc | 540 |
| tttattttcc | gagtcatgat | cctcgtggtg | gctgcccagg | aaagtgtggg | tgacgagcaa | 600 |
| gaggacttcg | tctgcaacac | actgcaaccg | ggatgcaaaa | atgtgtgcta | tgaccacttt | 660 |
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| gaggggtgac | tcgagcacca | ccaccaccac | cactgagatc | cggctgctaa | caaagcccgga | 900 |
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 Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
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1. **Introduction**
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<213> Homo sapiens

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 210 215 220

Glu Lys Thr Val Phe Thr Ile Phe Met Ile Ser Ala Ser Val Ile Cys
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Met Leu Leu Asn Val Ala Glu Leu Cys Tyr Leu Leu Leu Lys Val Cys
 245 250 255

Phe Arg Arg Ser Lys Arg Ala Gln Thr Gln Lys Asn His Pro Asn His
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 Leu Phe Asn Ala Thr Lys Arg Arg Val Phe Phe Arg Asn Ile Lys Ile
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 210 215 220
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 420 425 430
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 Pro Glu Ile Ile Leu Phe Asp Pro Asp Gly Arg Lys Tyr Tyr Thr Asn
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 Phe Tyr Pro Ile Leu Asn Ala Thr Val Thr Ala Thr Val Glu Pro Glu
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 Thr Gly Asp Pro Val Thr Leu Arg Leu Leu Asp Asp Gly Ala Gly Ala
 625 630 635 640
 Asp Val Ile Lys Asn Asp Gly Ile Tyr Ser Arg Tyr Phe Phe Ser Phe
 645 650 655
 Ala Ala Asn Gly Arg Tyr Ser Leu Lys Val His Val Asn His Ser Pro
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 Ser Ile Ser Thr Pro Ala His Ser Ile Pro Gly Ser His Ala Met Tyr
 675 680 685
 Val Pro Gly Tyr Thr Ala Asn Gly Asn Ile Gln Met Asn Ala Pro Arg
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 Lys Ser Val Gly Arg Asn Glu Glu Glu Arg Lys Trp Gly Phe Ser Arg
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 Val Ser Ser Gly Gly Ser Phe Ser Val Leu Gly Val Pro Ala Gly Pro
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 His Pro Asp Val Phe Pro Pro Cys Lys Ile Ile Asp Leu Glu Ala Val
 740 745 750
 Lys Val Glu Glu Glu Leu Thr Leu Ser Trp Thr Ala Pro Gly Glu Asp
 755 760 765
 Phe Asp Gln Gly Gln Ala Thr Ser Tyr Glu Ile Arg Met Ser Lys Ser
 770 775 780
 Leu Gln Asn Ile Gln Asp Phe Asn Asn Ala Ile Leu Val Asn Thr
 785 790 795 800
 Ser Lys Arg Asn Pro Gln Gln Ala Gly Ile Arg Glu Ile Phe Thr Phe
 805 810 815
 Ser Pro Gln Ile Ser Thr Asn Gly Pro Glu His Gln Pro Asn Gly Glu
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 Thr His Glu Ser His Arg Ile Tyr Val Ala Ile Arg Ala Met Asp Arg
 835 840 845
 Asn Ser Leu Gln Ser Ala Val Ser Asn Ile Ala Gln Ala Pro Leu Phe
 850 855 860
 Ile Pro Pro Asn Ser Asp Pro Val Pro Ala Arg Asp Tyr Leu Ile Leu

865 870 875 880
 Lys Gly Val Leu Thr Ala Met Gly Leu Ile Gly Ile Ile Cys Leu Ile
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 Lys Glu Asn Gly Thr Lys Leu Leu
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| ttgctcattg | caattaatcc | tcagggtacct | gagaatcaga | acctcatctc | aaacattaag | 120 |
| gaaatgataa | ctgaagcttc | attttaccta | tttaatgcta | ccaagagaag | agtatttttc | 180 |
| agaaatataa | agattttaat | acctgccaca | tggaagcta | ataataacag | caaaataaaa | 240 |
| caagaatcat | atgaaaaggc | aaatgtcata | gtgactgact | ggtatggggc | acatggagat | 300 |
| gatccataca | ccctacaata | cagagggtgt | ggaaaagagg | gaaaatacat | tcatttcaca | 360 |
| cctaatttcc | tactgaatga | taacttaaca | gctggctacg | gatcacgagg | ccgagtgttt | 420 |
| gtccatgaat | gggcccacct | ccgttggggg | gtgttcgatg | agtataacaa | tgacaaacct | 480 |
| ttctacataa | atgggcaaaa | tcaaattaaa | gtgacaagg | gttcatctga | catcacaggc | 540 |
| atttttgtgt | gtgaaaaagg | tccttgcccc | caagaaaact | gtattattag | taagcttttt | 600 |
| aaagaaggat | gcacctttat | ctacaatagc | acccaaaatg | caactgcac | aataatgttc | 660 |
| atgcaaagtt | tatcttctgt | ggttgaattt | tgtaatgcaa | gtaccacaaa | ccaagaagca | 720 |
| ccaaacctac | agaaccagat | gtgcagcctc | agaagtgcac | gggatgtaac | cacagactct | 780 |
| gctgactttc | accacagctt | tcccatgaac | gggactgagc | ttccacctcc | tcccacattc | 840 |
| tcgcttgtag | aggctgggga | caaagtgggc | tgtttagtgc | tggatgtgtc | cagcaagatg | 900 |
| gcagaggctg | acagactcct | tcaactacaa | caagccgcag | aattttat | gatgcagatt | 960 |
| gttgaaatc | ataccttcgt | gggcattggc | agtttcgaca | gcaaaggaga | gatcagagcc | 1020 |
| cagctacacc | aaattaacag | caatgatgat | cgaaagttgc | tggtttcata | tctgcccacc | 1080 |
| actgtatcag | ctaaaacaga | catcagcatt | tgttcagggc | ttaagaaagg | atttgagggtg | 1140 |
| gttgaaaaac | tgaatggaaa | agcttatggc | tctgtgatga | tattagtgc | cagcggagat | 1200 |
| gataagcttc | ttggcaattg | cttaccact | gtgctcagca | gtggttcaac | aattcactcc | 1260 |
| attgcctctg | gttcatctgc | agccccaat | ctggaggaat | tatcacgtct | tacaggagggt | 1320 |
| ttaaagttct | ttgttccaga | tatatcaaac | tccaatagca | tgattgatgc | tttcagtaga | 1380 |
| atttcctctg | gaactggaga | cattttccag | caacatattc | agcttgaaa | tacaggtgaa | 1440 |
| aatgtcaaac | ctcaccatca | attgaaaaac | acagtgcact | tggaataac | tgtgggcaac | 1500 |
| gacactatgt | ttctagttaa | gtggcaggcc | agtggctctc | ctgagattat | attatttgat | 1560 |
| cctgatggac | gaaaatacta | cacaaataat | tttatcacca | atctaacttt | tcggacagct | 1620 |
| agtctttgga | ttccaggaac | agctaagcct | gggcactgga | cttacaccct | gaacaatacc | 1680 |
| catcattctc | tgcaagccct | gaaagtgcac | gtgacctctc | gcgcctccaa | ctcagctgtg | 1740 |
| ccccagcca | ctgtggaagc | ctttgtggaa | agagacagcc | tccattttcc | tcactctgtg | 1800 |
| atgatttatg | ccaatgtgaa | acagggattt | tatcccattc | ttaatgccac | tgctactgcc | 1860 |
| acagttgagc | cagagactgg | agatcctgtt | acgctgagac | tccttgatga | tgagcaggt | 1920 |
| gctgatgtta | taaaaaatga | tggaatttac | tcgaggattt | ttttctcctt | tgctgcaaat | 1980 |
| ggtagatata | gcttgaaagt | gcatgtcaat | cactctccca | gcataagcac | cccagcccac | 2040 |
| tctattccag | ggagtcatgc | tatgtatgta | ccaggttaca | cagcaaacgg | taatattcag | 2100 |
| atgaatgtc | caaggaaatc | agtaggcaga | aatgaggagg | agcgaagtg | gggctttagc | 2160 |
| cgagtcagct | caggaggctc | cttttcagtg | ctgggagttc | cagctggccc | ccaccctgat | 2220 |
| gtgtttccac | catgcaaaat | tattgacctg | gaagctgtaa | aagtagaaga | ggaattgacc | 2280 |
| ctatcttgga | cagcacctgg | agaagacttt | gatcagggcc | aggctacaag | ctatgaaata | 2340 |
| agaatgagta | aaagtctaca | gaatatccaa | gatgacttta | acaatgctat | tttagtaaat | 2400 |

acatcaaagc gaaatcctca gcaagctggc atcagggaga tattttacgtt ctcaccccaa 2460
 atttccacga atggacctga acatcagcca aatggagaaa cacatgaaag ccacagaatt 2520
 tatgttgcaa tacgagcaat ggataggaac tccttacagt ctgctgtatc taacattgcc 2580
 caggcgctc tgtttattcc cccaattct gatcctgtac ctgccagaga ttatcttata 2640
 ttgaaaggag ttttaacagc aatgggtttg ataggaatca ttgccttat tatagttgtg 2700
 acacatcata ctttaagcag gaaaaagaga gcagacaaga aagagaatgg aacaaaatta 2760
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<210> 359

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 359

tggcagcccc tcttcttcaa gtggc

25

<210> 360

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 360

cgccagaatt catcaaaca atctgttagc acc

33

<210> 361

<211> 77

<212> PRT

<213> Homo sapiens

<400> 361

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gln | His | His | His | His | His | His | Trp | Gln | Pro | Leu | Phe | Phe | Lys | Trp |
| 1 | | | 5 | | | | | | 10 | | | | | 15 | |
| Leu | Leu | Ser | Cys | Cys | Pro | Gly | Ser | Ser | Gln | Ile | Ala | Ala | Ala | Ala | Ser |
| | | 20 | | | | | 25 | | | | | 30 | | | |
| Thr | Gln | Pro | Glu | Asp | Asp | Ile | Asn | Thr | Gln | Arg | Lys | Lys | Ser | Gln | Glu |
| | | 35 | | | | 40 | | | | | 45 | | | | |
| Lys | Met | Arg | Glu | Val | Thr | Asp | Ser | Pro | Gly | Arg | Pro | Arg | Glu | Leu | Thr |
| | 50 | | | | 55 | | | | 60 | | | | | | |
| Ile | Pro | Gln | Thr | Ser | Ser | His | Gly | Ala | Asn | Arg | Phe | Val | | | |
| 65 | | | | 70 | | | | | 75 | | | | | | |

<210> 362

<211> 244

<212> DNA

<213> Homo sapiens

<400> 362

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60

120
180
240
244

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<400> 363
Met Trp Gln Pro Leu Phe Phe Lys Trp Leu Leu Ser Cys Cys Pro Gly
          5                      10                      15
Ser Ser Gln Ile
          20

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<400> 364
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<400> 365
Gly Ser Ser Gln Ile Ala Ala Ala Ala Ser Thr Gln Pro Glu Asp Asp
                    5                      10                      15
Ile Asn Thr Gln
                20

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<400> 366
gggagttctc aaattgctgc agcagcctcc acccagcctg aggatgacat caatacacag 60

<400> 367
Lys Pro Gly His Trp Thr Tyr Thr Leu Asn Asn Thr His His Ser Leu
 5 10 15
Gln Ala Leu Lys

20

<210> 368
 <211> 2343
 <212> DNA
 <213> Homo sapiens

<400> 368

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| gggagctggg | gagcccgag | cggcccgag | ccggagctgg | cgagccgagc | ggagacctgt | 120 |
| gcgccgcgcc | tctgaggcgc | agcatgtgaa | gcggagacgg | catccagtgg | ggggcgagcc | 180 |
| tctcagccgg | ccgggatggc | taccacggcc | gagctcttcg | aggagccttt | tgtggcagat | 240 |
| gaatatattg | aacgtcttgt | atggagaacc | ccaggaggag | gctctagagg | tggacctgaa | 300 |
| gcttttgatc | ctaaaagatt | attagaagaa | tttgtaaata | atattcagga | actccagata | 360 |
| atggatgaaa | ggattcagag | gaaagtagag | aaactagagc | aacaatgtca | gaaagaagcc | 420 |
| aaggaatttg | ccaagaaggt | acaagagctg | cagaaaagca | atcagggttg | cttccaacat | 480 |
| ttccaagaac | tagatgagca | cattagctat | gtagcaacta | aagtctgtca | ccttgagac | 540 |
| cagttagagg | gggtaaacac | acccagacaa | cgggcagtgg | aggctcagaa | attgatgaaa | 600 |
| tactttaatg | agtttctaga | tggagaattg | aaatctgatg | tttttcaaaa | ttctgaaaag | 660 |
| ataaaggaag | cagcagacat | cattcagaag | ttgcacctaa | ttgccaaga | gttacctttt | 720 |
| gatagatttt | cagaagttaa | atccaaaatt | gcaagtaaat | accatgattt | agaatgccag | 780 |
| ctgattcagg | agtttaccag | tgctcaaaga | agaggtgaaa | tctccagaat | gagagaagta | 840 |
| gcagcagttt | tacttcattt | taagggttat | tccattgtgt | ttgatgttta | tataaagcag | 900 |
| tgccaggagg | gtgcttattt | gagaaatgat | atatttgaag | acgctggaat | actctgtcaa | 960 |
| agagtgaaca | aacaagttgg | agatatcttc | agtaatccag | aaacagtcct | ggctaaactt | 1020 |
| attcaaaatg | tatttgaaat | caaactacag | agttttgtga | aagagcagtt | agaagaatgt | 1080 |
| aggaagtcgg | atgcagagca | atatctcaaa | aatctctatg | atctgtatac | aagaaccacc | 1140 |
| aatctttcca | gcaagctgat | ggagtttaat | ttaggtactg | ataaacagac | tttcttgtct | 1200 |
| aagcttatca | aatccatttt | catttccctat | ttggagaact | atattgaggt | ggagactgga | 1260 |
| tatttgaaaa | gcagaagtgc | tatgatccta | cagcgctatt | atgattcgaa | aaaccatcaa | 1320 |
| aagagatcca | ttggcacagg | aggtattcaa | gatttgaagg | aaagaattag | acagcgtacc | 1380 |
| aacttaccac | ttggggccaag | tatcgatact | catggggaga | cttttctatc | ccaagaagtg | 1440 |
| gtggttaatc | ttttacaaga | aaccaaacaa | gcctttgaaa | gatgtcatag | gctctctgat | 1500 |
| ccttctgact | taccaaggaa | tgcttccaga | atttttacca | ttcttggtga | atttttatgt | 1560 |
| attgagcata | ttgattatgc | tttggaacaa | ggacttgctg | gaattccctc | ttcagattct | 1620 |
| aggaatgcaa | atcttttattt | tttggaagctt | gtgcaacagg | ccaatactat | ttttcatctt | 1680 |
| tttgacaaac | agtttaaatga | tcaccttatg | ccactaataa | gctcttctcc | taagttatct | 1740 |
| gaatgccttc | agaagaaaaa | agaaataatt | gaacaaatgg | agatgaaatt | ggatactggc | 1800 |
| attgatagga | cattaaattg | tatgattgga | cagatgaagc | atattttggc | tgcagaacag | 1860 |
| aagaaaacag | attttaagcc | agaagatgaa | aacaatgttt | tgattcaata | tactaatgcc | 1920 |
| tgtgtaaaag | tctgtgctta | cgtaagaaaa | caagtggaga | agattaaaaa | ttccatggat | 1980 |
| gggaagaatg | tgataacagt | tttgatggaa | cttggaagtac | gttttcatcg | acttatctat | 2040 |
| gagcatcttc | aacaatatct | ctacagttgt | atgggtggca | tgttggccat | ttgtgatgta | 2100 |
| gccgaatata | ggaagtgtgc | caaagacttc | aagattccaa | tggtattaca | tctttttgat | 2160 |
| actctgcatg | ctctttgcaa | tcttctggta | gttgccccag | ataatttaaa | gcaagtctgc | 2220 |
| tcaggagaac | aacttgctaa | tctggacaag | aataacttcc | actccttcgt | acaacttcgt | 2280 |
| gctgattata | gatctgcccc | ccttgctcga | cacttcagct | gagattgaat | ttacaaaagga | 2340 |
| att | | | | | | 2343 |

<210> 369
 <211> 708
 <212> PRT
 <213> Homo sapiens

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Thr | Thr | Ala | Glu | Leu | Phe | Glu | Glu | Pro | Phe | Val | Ala | Asp | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Tyr | Ile | Glu | Arg | Leu | Val | Trp | Arg | Thr | Pro | Gly | Gly | Gly | Ser | Arg | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Gly | Pro | Glu | Ala | Phe | Asp | Pro | Lys | Arg | Leu | Leu | Glu | Glu | Phe | Val | Asn |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| His | Ile | Gln | Glu | Leu | Gln | Ile | Met | Asp | Glu | Arg | Ile | Gln | Arg | Lys | Val |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Glu | Lys | Leu | Glu | Gln | Gln | Cys | Gln | Lys | Glu | Ala | Lys | Glu | Phe | Ala | Lys |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Lys | Val | Gln | Glu | Leu | Gln | Lys | Ser | Asn | Gln | Val | Ala | Phe | Gln | His | Phe |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Gln | Glu | Leu | Asp | Glu | His | Ile | Ser | Tyr | Val | Ala | Thr | Lys | Val | Cys | His |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Leu | Gly | Asp | Gln | Leu | Glu | Gly | Val | Asn | Thr | Pro | Arg | Gln | Arg | Ala | Val |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Glu | Ala | Gln | Lys | Leu | Met | Lys | Tyr | Phe | Asn | Glu | Phe | Leu | Asp | Gly | Glu |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Leu | Lys | Ser | Asp | Val | Phe | Thr | Asn | Ser | Glu | Lys | Ile | Lys | Glu | Ala | Ala |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| Asp | Ile | Ile | Gln | Lys | Leu | His | Leu | Ile | Ala | Gln | Glu | Leu | Pro | Phe | Asp |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Arg | Phe | Ser | Glu | Val | Lys | Ser | Lys | Ile | Ala | Ser | Lys | Tyr | His | Asp | Leu |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Glu | Cys | Gln | Leu | Ile | Gln | Glu | Phe | Thr | Ser | Ala | Gln | Arg | Arg | Gly | Glu |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Ile | Ser | Arg | Met | Arg | Glu | Val | Ala | Ala | Val | Leu | Leu | His | Phe | Lys | Gly |
| | 210 | | | | | 215 | | | | | | 220 | | | |
| Tyr | Ser | His | Cys | Val | Asp | Val | Tyr | Ile | Lys | Gln | Cys | Gln | Glu | Gly | Ala |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Tyr | Leu | Arg | Asn | Asp | Ile | Phe | Glu | Asp | Ala | Gly | Ile | Leu | Cys | Gln | Arg |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Val | Asn | Lys | Gln | Val | Gly | Asp | Ile | Phe | Ser | Asn | Pro | Glu | Thr | Val | Leu |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Ala | Lys | Leu | Ile | Gln | Asn | Val | Phe | Glu | Ile | Lys | Leu | Gln | Ser | Phe | Val |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Lys | Glu | Gln | Leu | Glu | Glu | Cys | Arg | Lys | Ser | Asp | Ala | Glu | Gln | Tyr | Leu |
| | | 290 | | | | 295 | | | | | 300 | | | | |
| Lys | Asn | Leu | Tyr | Asp | Leu | Tyr | Thr | Arg | Thr | Thr | Asn | Leu | Ser | Ser | Lys |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| Leu | Met | Glu | Phe | Asn | Leu | Gly | Thr | Asp | Lys | Gln | Thr | Phe | Leu | Ser | Lys |
| | | | | 325 | | | | | 330 | | | | | 335 | |
| Leu | Ile | Lys | Ser | Ile | Phe | Ile | Ser | Tyr | Leu | Glu | Asn | Tyr | Ile | Glu | Val |
| | | | 340 | | | | | 345 | | | | | 350 | | |
| G | | | | | | | | | | | | | | | |

Val Asn Leu Leu Gln Glu Thr Lys Gln Ala Phe Glu Arg Cys His Arg
 420 425 430
 Leu Ser Asp Pro Ser Asp Leu Pro Arg Asn Ala Phe Arg Ile Phe Thr
 435 440 445
 Ile Leu Val Glu Phe Leu Cys Ile Glu His Ile Asp Tyr Ala Leu Glu
 450 455 460
 Thr Gly Leu Ala Gly Ile Pro Ser Ser Asp Ser Arg Asn Ala Asn Leu
 465 470 475 480
 Tyr Phe Leu Asp Val Val Gln Gln Ala Asn Thr Ile Phe His Leu Phe
 485 490 495
 Asp Lys Gln Phe Asn Asp His Leu Met Pro Leu Ile Ser Ser Ser Pro
 500 505 510
 Lys Leu Ser Glu Cys Leu Gln Lys Lys Lys Glu Ile Ile Glu Gln Met
 515 520 525
 Glu Met Lys Leu Asp Thr Gly Ile Asp Arg Thr Leu Asn Cys Met Ile
 530 535 540
 Gly Gln Met Lys His Ile Leu Ala Ala Glu Gln Lys Lys Thr Asp Phe
 545 550 555 560
 Lys Pro Glu Asp Glu Asn Asn Val Leu Ile Gln Tyr Thr Asn Ala Cys
 565 570 575
 Val Lys Val Cys Ala Tyr Val Arg Lys Gln Val Glu Lys Ile Lys Asn
 580 585 590
 Ser Met Asp Gly Lys Asn Val Asp Thr Val Leu Met Glu Leu Gly Val
 595 600 605
 Arg Phe His Arg Leu Ile Tyr Glu His Leu Gln Gln Tyr Ser Tyr Ser
 610 615 620
 Cys Met Gly Gly Met Leu Ala Ile Cys Asp Val Ala Glu Tyr Arg Lys
 625 630 635 640
 Cys Ala Lys Asp Phe Lys Ile Pro Met Val Leu His Leu Phe Asp Thr
 645 650 655
 Leu His Ala Leu Cys Asn Leu Leu Val Val Ala Pro Asp Asn Leu Lys
 660 665 670
 Gln Val Cys Ser Gly Glu Gln Leu Ala Asn Leu Asp Lys Asn Ile Leu
 675 680 685
 His Ser Phe Val Gln Leu Arg Ala Asp Tyr Arg Ser Ala Arg Leu Ala
 690 695 700
 Arg His Phe Ser
 705

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 <211> 60
 <212> DNA
 <213> Homo sapiens

<400> 370
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<210> 371
 <211> 60
 <212> DNA
 <213> Homo sapiens

<400> 371
agtagaattt cctctggaac tggagacatt ttccagcaac atattcagct tgaaagtaca 60

<210> 372
<211> 60
<212> DNA
<213> Homo sapiens

<400> 372
ccagagactg gagatcctgt tacgctgaga ctccctgatg atggagcagg tgctgatgtt 60

<210> 373
<211> 60
<212> DNA
<213> Homo sapiens

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<210> 374
<211> 60
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<400> 374
gctgtgcccc cagccactgt ggaagccttt gtggaaagag acagcctcca ttttctcat 60

<210> 375
<211> 60
<212> DNA
<213> Homo sapiens

<400> 375
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<210> 376
<211> 20
<212> PRT
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<400> 376
Leu Gln Ser Ala Val Ser Asn Ile Ala Gln Ala Pro Leu Phe Ile Pro
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Pro Asn Ser Asp
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<210> 377
<211> 20
<212> PRT
<213> Homo sapiens

CCAGAGACTG

<400> 377

Val Asn His Ser Pro Ser Ile Ser Thr Pro Ala His Ser Ile Pro Gly
 5 10 15

Ser His Ala Met
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<210> 378

<211> 20

<212> PRT

<213> Homo sapiens

<400> 378

Pro Glu Thr Gly Asp Pro Val Thr Leu Arg Leu Leu Asp Asp Gly Ala
 5 10 15

Gly Ala Asp Val
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<210> 379

<211> 20

<212> PRT

<213> Homo sapiens

<400> 379

Ala Val Pro Pro Ala Thr Val Glu Ala Phe Val Glu Arg Asp Ser Leu
 5 10 15

His Phe Pro His
 20

<210> 380

<211> 20

<212> PRT

<213> Homo sapiens

<400> 380

Ser Arg Ile Ser Ser Gly Thr Gly Asp Ile Phe Gln Gln His Ile Gln
 5 10 15

Leu Glu Ser Thr
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<210> 381

<211> 20

<212> PRT

<213> Homo sapiens

<400> 381

Lys Asn Thr Val Thr Val Asp Asn Thr Val Gly Asn Asp Thr Met Phe

5

10

15

Leu Val Thr Trp
20

[illegible]